

**SEPTEMBER 2000
VOLUME 42
NUMBER 9**

STORM DATA



**AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS**



noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC

Cover: Aerial photograph of damage caused by an F4 tornado as it moved through a residential neighborhood in Xenia, Ohio. Xenia was also hit by an F5 tornado on April 3, 1974, which killed 36 and injured 1150. (*Photograph courtesy of Tom Johnstone, Meteorologist, National Weather Service, Wilmington, Ohio*)

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STORM DATA

(ISSN 0039-1972)

National Climatic Data Center

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STORM DATA is prepared, and distributed by the National Climatic Data Center (NCDC), National Environmental Satellite, Data and Information Service (NESDIS), National Oceanic and Atmospheric Administration (NOAA).

The Storm Data and Unusual Weather Phenomena narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by the National Climatic Data Center and the National Weather Service's (NWS) Storm Prediction Center.

STORM DATA contains all confirmed information on storms available to our staff at the time of publication. Late reports and corrections will be printed in each edition.

Except for limited editing to correct grammatical errors, the data in **Storm Data** are published as received.

Note: "None Reported" means that no severe weather occurred and "Not Received" means that no reports were received for this region at the time of printing.

Subscription, pricing, and ordering information is available from:

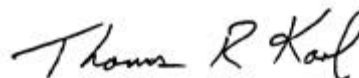
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The editors of **STORM DATA** solicit your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or severe weather events (past or present) for use in the "Outstanding Storms of the Month" section of **STORM DATA**. We request our subscribers or other interested persons to mail such items to:

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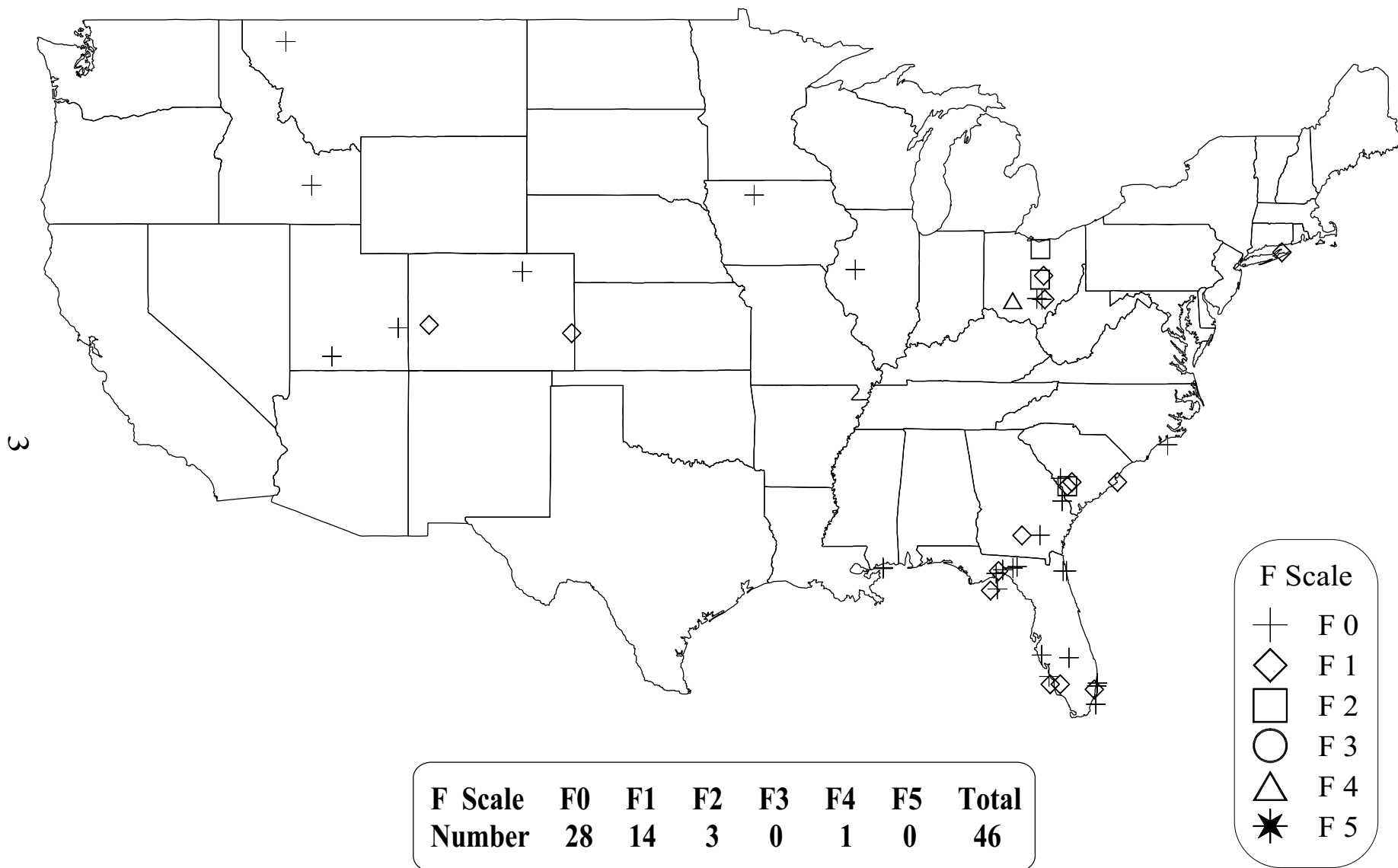
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Thomas R. Karl
Director,
National Climatic Data Center

September 2000 Confirmed Tornadoes



OUTSTANDING STORMS OF THE MONTH

1. TORNADOES STRIKE XENIA, OHIO SEPTEMBER 2000

On the evening of September 20, a line of thunderstorms developed over Indiana and moved into western Ohio, where the storm encountered a moderately unstable conditions and a strong wind sheared environment. Within this line of storms, a tornado touched down for eight minutes southwest of Xenia near Bellbrook. The tornado tracked through the northwest side of Xenia and reached F4 strength before lifting. The tornado damaged or destroyed at least two hundred sixty-four homes, forty businesses, six churches, three barns and caused some crop damage. Strong winds nearly destroyed one strip mall, moved four semi-tractor trailers up to 400 yards, and pushed cars off highways into ditches. The tornado caused approximately \$15 million in damage. The storm killed one person in a vehicle at the Greene county fairgrounds and injured 100 others. One hour later, the same storm cell created another tornado that tracked through Delaware and Licking counties.



Left: Aerial view of a Xenia neighborhood with F4 damage to homes.

(Photographs courtesy of Tom Johnstone, Meteorologist, National Weather Service, Wilmington, Ohio)

Right: Aerial photograph of tornado damage as it passed through residential and commercial neighborhoods.

(Special Thanks to Stephen Wilkinson, Meteorologist, National Weather Service, Wilmington, Ohio)



Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
ALABAMA, North Central									
Autauga County Countywide	01	0700CST 1030CST			0	0	200K	0	Flash Flood
Elmore County Countywide	01	0730CST 0900CST			0	0	20K	0	Flash Flood
Montgomery County Countywide	01	0730CST 0900CST			0	0	20K	0	Flash Flood
South central Alabama received four to eight inches of rain in a short period of time. The heavy rainfall caused significant flooding in Autauga, Elmore, and Montgomery Counties. One of the hardest hit areas was Prattville. Emergency Management officials estimated at least 100 homes were damaged and a dozen received major damage. Many residents of the Candlestick Mobile Home Park were rescued by boat and 70 additional residents were evacuated. Approximately 20 businesses also sustained damage. Numerous roads in all three counties were flooded and subsequently closed. Several schools were closed for the day. Frequent lightning also accompanied the heavy rain. The lightning caused power outages that affected several thousand customers. A few small fires were also reported but no one was injured.									
Autauga County Prattville	01	0715CST			0	1	0	0	Lightning
A woman was struck by lightning in the Wal-Mart parking lot. She sustained only slight injuries.									
Marion County 5 W Hamilton	04	1800CST			0	0	30K	0	Thunderstorm Wind (G55)
An old shop building and a wooden shed were totally destroyed in the Barnesville Community. Several homes sustained roof damage and many awnings were blown away. Several trees were also knocked down in the area.									
Lauderdale County Killen	04	1835CST			0	0	0	0	Thunderstorm Wind (G50)
Trees and power lines were blown down near Killen.									
ALZ006	17	0600CST			0	0	0	0	Extreme Cold
A morning low temperature of 47 degrees was measured at the Huntsville International Airport. This temperature tied the previous record low temperature.									
Cullman County 5 SW Hanceville	20	2030CST			0	0	0	0	Thunderstorm Wind (G50)
Several trees were blown down near Hanceville.									
Randolph County Wedowee	21	1400CST 1600CST			0	0	12K	0	Flash Flood
Heavy rainfall in a short period of time caused flooding in Wedowee. Many roads were flooded and creeks briefly ran out of their banks.									
Blount County Cleveland	23	1624CST			0	0	0	0	Hail (0.75)
Dime size hail was reported in Cleveland and in few other locations in central Blount County.									
Jefferson County 9 N Graysville	23	1645CST			0	5	0	0	Lightning
In the Bagley Community, eight individuals took shelter under a tree that was subsequently struck by lightning. Five of the eight people were injured. Three of the victims were transported to area hospitals by ambulance.									
Talladega County Lincoln	23	1740CST			0	0	4K	0	Thunderstorm Wind (G50)
Several trees were blown down near Lincoln. SR 77 was temporarily blocked by a few of the downed trees.									
Clay County Ashland	23	1830CST			0	0	0	0	Thunderstorm Wind (G50)
One very large tree was blown down and blocked the road near Ashland.									
Madison County Huntsville	24	1430CST			0	0	0	0	Hail (0.88)
Nickel size hail was reported in the northwest part of Huntsville.									
Morgan County Decatur	24	2010CST			0	0	2K	0	Thunderstorm Wind (G50)
A few trees were blown down in and around the city of Decatur.									
ALABAMA, Southeast									
NONE REPORTED.									
ALABAMA, Southwest									
Mobile County Prichard	01	1630CST			0	0	5K		Lightning

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							

ALABAMA, Southwest

Lightning struck a house and sparked a small fire. The fire was quickly extinguished, no injuries were reported.

Baldwin County Daphne

02 1600CST **0 0 5K** **Lightning**

Lightning struck a tree outside a home and ran along a path into the home, where it knocked a man to the ground. The man was uninjured, but the lightning blew out several appliances in the home.

Mobile County Chunchula

02 1645CST **0 0 5K** **Thunderstorm Wind (G60)**
1650CST

Numerous trees were blown down by high thunderstorm winds along Highway 45.

Baldwin County Daphne

02 1725CST **0 0 5K** **Thunderstorm Wind (G55)**
1730CST

High thunderstorm winds blew down trees in and around the community.

Washington County Sunflower

05 1255CST **0 0** **Hail (0.75)**
1300CST

A thunderstorm produced dime sized hail near the community.

Mobile County Grand Bay

05 1445CST **0 0** **Hail (0.88)**
1450CST

A thunderstorm produced nickel sized hail in the community.

Baldwin County Loxley

05 1505CST **0 0** **Hail (0.88)**
1510CST

Thunderstorm produced nickel sized hail.

Baldwin County Loxley

05 1505CST **0 0 5K** **Thunderstorm Wind (G50)**
1510CST

Several pecan trees were blown down by high winds.

Mobile County (Bfm)Mobile Brookley

11 1120CST **0 0** **Waterspout**
1130CST

Air Traffic Controllers in the tower at Brookley Field reported a waterspout east of the airfield over Mobile Bay. The waterspout remained over the bay for a period of about ten minutes, after which it dissipated.

ALZ061>064

Upper Mobile - Upper Baldwin - Lower Mobile - Lower Baldwin

21 0900CST **0 0 10K** **Tropical Storm**
22 0900CST

Tropical Storm Helene affected the region during the later half of the third week of September. The area was put under a Tropical Storm Warning at 900 AM, September 21 that continued until 900 AM, September 22. The highest winds recorded along the Alabama coastline occurred at Brookley Field with sustained winds of 26 knots and gusts to 31 knots. Brookley also received the most rainfall along the Alabama coast with 1.08 inches. Minor beach erosion was reported on Dauphin Island, where a newly built protective sand berm was partially eroded and several boardwalks were damaged by high surf.

ALASKA, Northern

AKZ007

20 2300AST **0 0** **High Wind (G52) ^M**
21 1300AST

A strong storm over the Bering Sea sent a weather front northeast over interior Alaska, producing strong winds across the western Alaska Range. High winds reported only at Healy: sustained 35 mph, gust to 60 mph.

AKZ007

27 0800AST **0 0** **Heavy Snow**
28 2000AST

A low pressure center in the eastern Gulf of Alaska deepened on the 26th through 27th, causing moisture from the low to overrun the cool airmass over the Tanana Valley, producing snow over the Alaska Range and eastern Tanana Valley. On the morning of the 28th, some warm air aloft moved over the far eastern Tanana Valley, producing light freezing rain at Northway from 6am-8am AST.

Snowfall totals:

Healy: 6 inches

Dry Creek Co-op: 10 inches

Robertson River Co-op: 18 inches

Tanacross Co-op: 10 inches

Tok co-op: 10 inches

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Southeast

AKZ024>025

Lynn Canal-Glacier Bay - Juneau Borough-Admiralty Island-Icy Strait Area

05 1430AST

0

0

High Wind (G56) ^M

06 1000AST

Strong winds associated with a large Pacific Storm impacted Southeast Alaska with widespread reports of 50 to 60 mph winds. The peak winds in the local Juneau area were 65 mph at the Ranger Station and 59 mph at the Juneau Federal Building.

AKZ022

Cape Fairweather To Cape Suckling-Coastal Area

06 0400AST

0

0

High Wind (G60)

1700AST

A deep, tightly wound low center in the Gulf of Alaska moved onshore over the eastern coast of the Gulf of Alaska, and a concentrated band of strong 60 to 70 mph winds buffeted the community of Yakutat.

ALASKA, Southern

AKZ015

21 1700AST

0

0

5K

High Wind (G73) ^M

22 0100AST

Pressure gradients between a moderate high pressure center in the northeast Gulf of Alaska and an approaching weather front from the southwest, produced locally strong southeast winds along the Anchorage Hillside. Gusts reached speeds of 84 mph as reported by an observer at the intersection of O'Malley and Maintree Roads...along the mid Anchorage Hillside. Gusts above 60 mph were recorded across many other areas of the Hillside.

Power was knocked out to a large majority of Municipal Light & Power customers in the city of Anchorage after wind knocked tree branches into power lines about 8 pm. Scattered customers throughout the Chugach Electric Association service area, from Jewel Lake to the Hillside were without power as well. Wind also flipped a small floatplane at Lake Hood Thursday afternoon and damaged another while it was taxiing. No injuries were reported.

The front also was preceded by very warm air, yielding a balmy 70 degrees at Elmendorf AFB Thursday afternoon. This was among the warmest temperatures ever recorded at the site this late in September.

Forecasters at the Anchorage Forecast Office alerted the public to the high wind potential as early as 5 days prior to the onset of the strong winds.

AKZ020

23 1530AST

0

0

High Wind (G60) ^M

1630AST

Brisk north winds briefly gusted to 69 mph at the Dutch Harbor Spit site, in the lee of Mount Balleyhoo, Saturday.

Copper River Basin

.2 W Mccarthy

24 0000AST

0

0

5K

Flood

1645AST

Heavy rains and upper elevation snowmelt combined to bring small streams and rivers to flood stage around McCarthy. Minor flooding was reported around McCarthy Creek, with the road to town reportedly under water for several days.

AKZ013>014

26 0900AST

0

0

Heavy Snow

28 1100AST

Modified arctic air settled over the southeast mainland of Alaska Tuesday. On Wednesday, a moderate upper low moved southeast into the area from a position near Barrow several days earlier. As the upper low moved into the northwest Susitna Valley, it began to tap into moisture along an old frontal boundary in the extreme northern Gulf of Alaska, setting the stage for a significant overrunning snow event. Snow was mostly confined to higher elevations above 1000 ft above sea level. It should be noted that most terrain in the Copper River Basin meets this criteria.

Snowfall amounts reached 22" at Nelchina (between Tazlina and Eureka in the Copper River Basin) during the 2 day snow event there, although most fell from Wednesday morning through Thursday morning. 21" of snow was reported by a NWS employee visiting the Sheep Mountain Lodge along the Glenn Highway. Eureka Summit recorded 1' of new snow, while McCarthy (in the Upper Copper River Basin) received 15" of snow in 24 hours. Lower elevations, such as Glennallen, received 6" or less.

AMERICAN SAMOA

NONE REPORTED.

ARIZONA, Central and Northeast

Coconino County

Gray Mtn

08 1140MST

0

0

Hail (0.75)

An Arizona Department of Transportation employee reported 3/4 inch hail and 40 to 50 mph wind near the town of Grey Mountain.

AZZ015

Western Mogollon Rim

14 1300MST

0

3

Dust Storm

1330MST

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARIZONA, Central and Northeast

A strong dust devil at the Coconino County Fairgrounds caused property damage and personal injuries. The dust devil ripped shingles off two roofs, blew down four large tents, blew over a ticket booth and split the supporting beams on a permanent structure. Two people sustained minor scrapes and bruises and one person reported a back injury.

AZZ005>006-008-011-013>016-037 **Marble Canyon And Glen Canyon - Grand Canyon Country - Yavapai County Mountains - Chuska Mountains And Defiance Plateau - Little Colorado River Valley In Navajo County - Little Colorado River Valley In Apache County - Western Mogollon Rim - Eastern Mogollon Rim - Yavapai County Valleys And Basins**

22 1200MST 0 0 High Wind (G43) ^M
1900MST

A developing storm over the northern Rockies produced strong wind over northern Arizona through the afternoon. Many locations felt wind gusts between 40 and 50 MPH. Some of the peak wind gusts recorded were: Flagstaff and Grand Canyon Airports 44 MPH, St Johns 43 MPH, Window Rock 41 MPH, and Winslow 40 MPH.

AZZ011-013>017 **Chuska Mountains And Defiance Plateau - Little Colorado River Valley In Navajo County - Little Colorado River Valley In Apache County - Western Mogollon Rim - Eastern Mogollon Rim - White Mountains**

23 1100MST 0 0 High Wind (G49) ^M
1800MST

A strong storm brought high wind across northern Arizona during the day. A number of locations had southwest wind gusts in the 40 to 55 MPH range. Some of the peak wind gusts reported were: Doney Park 52 MPH, Winslow 45 MPH, Show Low 43 MPH, and Bellemont 40 MPH.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

Pima County

**3 NW Tucson to
4 N Tucson**

10 1500MST 0 0 75K Thunderstorm Wind (G60)
1510MST

Power lines blown down vicinity Limberlost and Oracle roads. Tree blown down onto three vehicles on west Speedway road.

Pima County

3 W Tucson

10 1510MST 0 0 Hail (1.00)

Pima County

3 NE Tucson

10 1513MST 0 0 Hail (0.75)

Pima County

**3 SE Tucson to
8 NW Tucson**

10 1630MST 0 0 Flash Flood
1730MST

Several roads flooded in southeast Tucson, downtown Tucson, and on the northwest side.

Strong thunderstorms moved through the central and north part of Tucson. Rain amounts exceeded 1 inch in 30 minutes at some locations. Hail from pea size to 1 inch reported as well. The east side of Tucson was untouched by this storm.

Cochise County

Ft Huachuca

28 1430MST 0 0 Thunderstorm Wind (G50) ^M

Peak wind 50 kts at FHU ASOS. .64 inches in 15 minutes and temperature went from 89 to 70 in 11 minutes.

ARIZONA, Southwest

Maricopa County

Gilbert

10 1930MST 0 0 Heavy Rain

Very heavy rain associated with thunderstorms hit parts of the East Valley. A spotter in Gilbert reported 1.02 inches in only 30 minutes.

ARKANSAS, Central and North Central

Polk County

Cove

01 1242CST 0 0 Thunderstorm Wind (G50)

Thunderstorm winds damaged a barn and knocked down some trees in Cove.

Yell County

Centerville

01 1343CST 0 0 Thunderstorm Wind (G50)

Thunderstorm winds downed trees and power lines at Centerville.

Garland County

Royal

01 1402CST 0 0 Hail (1.75)

Garland County

Royal

01 1402CST 0 0 Thunderstorm Wind (G50)

Thunderstorm winds removed roof shingles from a few homes near Royal.

Hot Spring County

Donaldson

01 1405CST 0 0 Hail (0.88)

Hot Spring County

Social Hill

01 1405CST 0 0 Hail (0.88)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ARKANSAS, Central and North Central

Garland County

Pearcy **01** **1420CST** **0** **0** **Thunderstorm Wind (G50)**
Thunderstorm winds downed some trees in Percy.

Ouachita County

Bearden **01** **1432CST** **0** **0** **Hail (0.75)**

Ouachita County

Bearden **01** **1432CST** **0** **0** **Thunderstorm Wind (G50)**
Thunderstorm winds downed trees and damaged a couple of brick buildings in Bearden.

Garland County

3 NNW Percy **01** **1445CST** **0** **0** **Thunderstorm Wind (G50)**
Thunderstorm winds knocked down 19 trees about 3 miles northwest of Percy.

Pulaski County

Maumelle **01** **1530CST** **0** **0** **Thunderstorm Wind (G50)**
Thunderstorm winds downed trees in Maumelle.

Pulaski County

No Little Rock Muni **01** **1543CST** **0** **0** **Thunderstorm Wind (G63) ^M**
A thunderstorm wind gust of 72 mph was measured at the National Weather Service in North Little Rock.

Pulaski County

North Little Rock **01** **1543CST** **0** **0** **Thunderstorm Wind (G50)**
Thunderstorm winds knocked down several trees in North Little Rock.

Pulaski County

Little Rock **01** **1548CST** **0** **0** **Thunderstorm Wind (G50)**



A severe thunderstorm produced damaging winds in the Little Rock area on 09/01/2000...with the winds blowing a tree onto a house on West 30th Street.

Thunderstorm winds downed dozens of trees in Little Rock, with some trees falling on houses and causing damage. Billboards, signs, and power lines were also blown down. Roof damage was also noted at a few area businesses, with a small concrete block building destroyed at one of the businesses.

Pulaski County

Little Rock **01** **1548CST** **0** **0** **Lightning**

Lightning associated with a severe thunderstorm struck at least a couple of houses in Little Rock, with fires started and major damage occurring. In all, at least 150 reports of fire were received by the local fire department.

Conway County

Morrilton **02** **1445CST** **0** **0** **Thunderstorm Wind (G50)**

Thunderstorm winds knocked down some trees and overturned a tractor trailer at Morrilton. In addition, a building at the local landfill suffered some roof damage.

Polk County

Wickes **03** **1352CST** **0** **0** **Thunderstorm Wind (G50)**

Thunderstorm winds downed trees and power lines at Wickes.

Storm Data and Unusual Weather Phenomena

September 2000

		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		September 2000
Location	Date				Killed	Injured	Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Pope County 4 NW Dover to 1 NW Dover	03	1445CST 1450CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds tore tin from a few roofs, removed roof shingles and downed trees and power lines in areas just northwest of Dover.									
Pope County 2 SE Pottsville	03	1515CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds moved a horse trailer, blew a deck over the top of a house, downed large tree limbs onto a few roofs causing minor damage, and knocked down trees and power lines about 2 miles southeast of Pottsville.									
Yell County Havana	03	1525CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees in Havana.									
Faulkner County Springhill	03	1635CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few power lines at Springhill.									
Pike County Langley	03	1720CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some power lines at Langley.									
Baxter County 13 NW Mountain Home	03	1725CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down power lines about 13 miles northwest of Mountain Home.									
Izard County Brockwell	03	1855CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed a few trees at Brockwell.									
Izard County Melbourne	03	1855CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds downed some trees in Melbourne.									
ARZ003>007-012>016-021>025-030>034-037>047-052>057-062>069									
Boone - Marion - Baxter - Fulton - Sharp - Newton - Searcy - Stone - Izard - Independence - Johnson - Pope - Van Buren - Cleburne - Jackson - Logan - Conway - Faulkner - White - Woodruff - Scott - Yell - Perry - Polk - Montgomery - Garland - Saline - Pulaski - Lonoke - Prairie - Monroe - Pike - Clark - Hot Spring - Grant - Jefferson - Arkansas - Dallas - Cleveland - Lincoln - Desha - Ouachita - Calhoun - Bradley - Drew									
08 1800CST 0 0 Drought									



Hot and dry weather led to several fires in early September, 2000. In the Petit Jean State Park (Conway County), a pine forest completely burned in a 1200 acre fire.

After two months with almost no rain in much of Arkansas, drought conditions worsened...especially in eastern sections of the state. In Little Rock, for example, only .67 inches of rain was measured in July and August combined...and was accompanied by the hottest month on record in August. A severe thunderstorm brought some rain to the Little Rock area on September 1st ending 27 straight days with no precipitation (a record). On September 8th, the Governor of Arkansas asked that all 75 counties in Arkansas be declared agricultural disaster areas. With foliage drying, grass fires became numerous. A 1200 acre fire spread through the Petit Jean State

Storm Data and Unusual Weather Phenomena

	Time Interval	Path Interval	Path Width	Number of Birds	Estimated Density
					September 2000

		Time	Path	Path	Number of		Estimated		September 2000
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

ARKANSAS, Central and North Central

Park in Conway County in early September, with several forested areas completely burned.

**Pope County
Russellville**

23	1945CST	0	0	Thunderstorm Wind (G50)
Thunderstorm winds downed trees and power lines, and blew down a large banner over a street in Russellville.				

**Pope County
Russellville**

23	1945CST	0	0	Lightning
Lightning accompanying a severe thunderstorm struck a house causing a power outage. However, no fire resulted.				

ARKANSAS, East

Clay County Piggott

24	0030CST 0035CST	0	0	25K	Thunderstorm Wind
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A tree was blown down on top of a house. A few power lines were blown down.

ARKANSAS, Northwest

Crawford County
2 E Alma

01	0200CST	0	0	25K	Thunderstorm Wind
Thunderstorm wind blew a tree down onto a tractor trailer. In addition, power lines were blown down and a billboard blew down and blocked Interstate 40.					

Franklin County
10 WNW Ozark

01	0245CST	0	0	1K	Thunderstorm Wind
Thunderstorm winds did damage to outbuilding two miles northeast of Mulberry near the Crawford-Franklin county line.					

Madison County
St Paul

01	1148CST	0	0	0.10K	Thunderstorm Wind
Thunderstorm winds blew down large tree limbs.					

Franklin County
4 NNW Ozark

03 1350CST 0 0 25K Thunderstorm Wind
Thunderstorm winds did extensive damage to poultry houses and a barn. A large tree was also blown down.

Sebastian County
Ft Smith

03	1530CST	0	0	100K	Thunderstorm Wind
Thunderstorm winds did damage along a small stretch of Towson and Wheeler avenues. Windows broken, signs blown down, roofs and siding damaged, and trees and power lines downed were prevalent.					

Sebastian County
2 N Barling

23	1757CST	0	0	0.10K	Thunderstorm Wind
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Thunderstorm winds blew down large trees.

Franklin County
Charleston

23	1810CST	0	0	0.50K	Thunderstorm Wind
Thunderstorm winds blew down power lines.					

Franklin County
Ozark

23	1822CST	0	0	Thunderstorm Wind (G52)
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ARKANSAS, Southeast

NONE REPORTED.

ARKANSAS, Southwest

Sevier County
De Queen

02	1430CST	0	0	2M	Thunderstorm Wind (G80) ^M
<p>Numerous trees and power lines down. Twenty eight (28) homes damaged. A chicken house was destroyed and 30 thousand chickens were contaminated resulting in their destruction.</p>					

**Sevier County
Ben Lomond**

02	1525CST	0	1	15K	Thunderstorm Wind (G68)
A weigh station was damaged and numerous trees down.					

Howard County
8 W Nashville

03	1435CST	0	0	Thunderstorm Wind (G61)
Numerous trees and power lines down.				

Howard County Mineral Spgs

03	1500CST	0	0	Thunderstorm Wind (G61)
Numerous trees and power lines down.				

Little River County
Foreman

03	1555CST	0	0	10K	Thunderstorm Wind (G57)
Numerous trees and power lines down. A tin roof was blown off of a church.					

CALIFORNIA, Extreme Southeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							

CALIFORNIA, North Central

Plumas County

20 W Quincy **01** **0000PST** **0** **0** **22.7M** **Wild/Forest Fire**
10 **2359PST**

A wildfire ignited on August 17th...20 miles west of Quincy in the steep terrain of the Feather River Canyon. The fire was pushed by strong winds for several days and significantly impacted Hwy 70 and the Bucks Lake Wilderness area. Only one structure (an out-building) was lost but 46280 acres were burned.

CAZ015-019

Northern Sacramento Valley - Northern San Joaquin Valley

01 **0001PST** **0** **0** **Extreme Cold**
2359PST

The daily low maximum temperature records were broken at Redding, Red Bluff, and Stockton. The Redding temperature reached only 67 degrees...breaking the previous record of 70 degrees set in 1907. The Red Bluff temperature reached only 66 degrees...breaking the previous record of 66 degrees set in 1964. The Stockton temperature reached only 74 degrees, which broke the previous record of 75 degrees also set in 1964.

Sacramento County

(Sac)Sacramento Arpt **01** **0001PST** **0** **0** **Heavy Rain**
2359PST

San Joaquin County

Stockton Metro Arpt **01** **0001PST** **0** **0** **Heavy Rain**
2359PST

Shasta County

Redding **01** **0001PST** **0** **0** **Heavy Rain**
2359PST

Rainfall in the Sacramento and northern San Joaquin valleys broke multiple calendar day accumulation records. Redding received 2.77 inches of rain for the date, which smashed the previous daily record of 0.30 inches set in 1964. Sacramento received 0.16 inches, which broke the record of a trace of rain last set in 1941. Stockton received 0.07 inches, which broke the previous record of a trace of rain...last set in 1924.

CAZ015>017-019

Northern Sacramento Valley - Central Sacramento Valley - Southern Sacramento Valley - Northern San Joaquin Valley

18 **0001PST** **0** **0** **Excessive Heat**
2359PST

Daily maximum temperature records were tied and broken across the Sacramento and northern San Joaquin valleys. The Redding temperature reached 104 degrees, which broke the previous record of 103 degrees set in 1995. The Red Bluff temperature reached 106 degrees, which broke the previous record of 105 degrees set in 1984. The Sacramento temperature reached 101 degrees, which tied the record previously set in 1984. The Stockton temperature reached 102 degrees, which tied the record previously set in 1939.

Butte County

18 E Chico **18** **0001PST** **0** **0** **1.9M** **Wild/Forest Fire**
22 **2359PST**

A wildfire ignited east of Chico and was pushed by strong winds. High temperatures and low humidities assisted the rapid spread which led to some evacuations and fourteen structure losses. By containment, 1835 acres had burned.

CAZ017

Southern Sacramento Valley

20 **0001PST** **0** **0** **Excessive Heat**
2359PST

The daily high maximum temperature record was set in Sacramento when it reached 102 degrees...breaking the previous record of 101 degrees set in 1994.

Tehama County

5 W Red Bluff **29** **0001PST** **0** **0** **547M** **Wild/Forest Fire**
30 **2359PST**

A wildfire ignited five miles west of Red Bluff and strong winds and steep terrain made containment efforts difficult. Five out-buildings and one radio vault were destroyed and 8284 acres were burned before the fire was finally contained in early October.

CALIFORNIA, Northeast

CAZ071

Lassen/Eastern Plumas/Eastern Sierra

23 **0630PST** **0** **0** **1K** **Fog**
Spotter report of heavy fog in Vinton reducing visibility to 500 feet and causing one non-injury accident.

CALIFORNIA, Northwest

NONE REPORTED.

CALIFORNIA, South Central

CAZ090

E Central Sj Valley

01 **0340PST** **0** **0** **250K** **Rain**
0545PST

Fresno County

Highway City **01** **0410PST** **0** **1** **Lightning**

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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CALIFORNIA, South Central

Madera County

12 SSW Oakhurst

01 0515PST

0 0

Lightning

Convective activity formed and moved over the Central San Joaquin Valley in the wee hours of the morning of the 1st. Thundershowers caused damage to the drying raisins in the Fresno County area and lightning strikes caused power outages to 6,000 customers in the Madera Ranchos, Oakhurst, Mariposa, and Bear Valley areas. A pedestrian was injured when struck by lightning at Shaw Avenue and Golden State Blvd in northwest Fresno. Fresno received 0.32" of rain breaking the record for the date of 0.21" held for 79 years. Many other areas on the Valley floor were less than 0.10" although isolated heavier amounts were received at Madera Ranchos of 0.90" and 0.65" at Clovis. Southern Sierra foothill areas received just over 1/2 inch with 0.35" reported at Tehachapi in the Kern Mountains.

Fresno County

1 E Dunlap

21 1200PST

0 0

425K

Wild/Forest Fire

23 1200PST

The Millwood Wildfire burned 238 acres but the ignition cause was unknown.

CAZ098>099

Indian Wells Vly - Se Kern Cty Desert

21 1345PST

0 0

Wind

1950PST

Wind Advisories were issued in the early morning hours for the desert portions of Kern County as winds were gusty. The Jawbone RAWS station reported 39 MPH at 1400 PST; Inyokern METAR had sustained wind of 30 Kts at 1345 PST; and Mojave METAR had 30 Kts gusting to 40 Kts at 1346 PST.

CAZ098

Indian Wells Vly

22 1353PST

0 0

Wind

1856PST

Again gusty wind swept over the Indian Wells Valley area of eastern Kern County during the hours just after dawn with wind diminishing by mid-day. The Jawbone RAWS showed gusts to 47 MPH at 1353 PST and China Lake had steady wind of 40 MPH gusting to 47 MPH at 1356 PST.

CALIFORNIA, Southeast

NONE REPORTED.

CALIFORNIA, Southwest

San Diego County

Chula Vista to

07 0607PST

0 0

25K

Lightning

Ramona

1650PST

San Diego County

Oceanside

07 1240PST

0 3

Lightning

Lightning struck the ground next to a basketball hoop at the Oceanside High School as about 200 students were assembling outside for their sixth period physical education class. Two students closest to where the bolt hit were knocked down and briefly lost consciousness. They later reported sensations that felt like being hit with a rock, needles going through their skin, and their hair being pulled. Another 100 students standing nearby reported feeling a mild jolt and the hair on their arms and heads standing on end. Lightning occurred throughout San Diego County the entire day, striking several homes and power poles, as well as starting brush and tree fires. Most of the blazes were quickly extinguished by the rainfall.

San Diego County

2 W Carlsbad Palomar

07 1200PST

0 0

Funnel Cloud

San Diego County

Borrego Spgs to

07 1400PST

0 0

25K

Tstm Wind/Hail

Ocotillo Wells

1430PST

A downdraft from a thunderstorm ripped off an attached porch and the roof of a mobile home, tossed a television satellite antenna dish into a tree, and snapped two power poles.

Riverside County

9 SW (Trm)Thermal Ar

08 1009PST

0 0

Wild/Forest Fire

1700PST

Lightning started a wildfire in the Santa Rosa Mountains. About 35 acres were burned before it was fully contained.

Orange County

8 E San Clemente to

11 1250PST

0 2

Wild/Forest Fire

5 E San Clemente

12 1700PST

A wild fire was fanned by east winds and burned 500 acres before being contained.

CALIFORNIA, Upper

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

05 1404PST

0 0

Extreme Cold

06 0800PST

See below.

Based on forecast low temperatures, a Frost Warning was issued for the above zones. Reported low temperatures were mostly in the lower to middle 30s, and temperatures below 30 appeared to be isolated. No frost was reported, but it likely did form. Skies cleared and the winds became calm during the night.

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September 2000

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					Killed	Injured	Property	Crops	

CALIFORNIA, Upper

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

21 1505PST 0 0 Extreme Cold
2136PST

See below.

A Frost Warning was issued for the above areas at 15:05 PDT on 09/22/00 but it was cancelled at 21:36 PDT because of forecast winds and cloud cover. Low temperatures this night were in the 40s in these California zones, so it was likely that little or no frost occurred.

CAZ084>085

Northeast Siskiyou And Northwest Modoc Counties - Modoc County

22 1724PST 0 0 Extreme Cold
23 0800PST

See below.

A Frost Warning was issued for the above areas at the above times. Reported low temperatures were in the 20s. It appears that this was the "killing frost" for the fall.

CALIFORNIA, West South Central

Santa Barbara County

1 E Vandenberg Afb 13 0800PST 0 0 662K Wild/Forest Fire
19 1600PST

A wildfire burned 11,080 acres of land east of Vandenberg Air Force Base. No injuries or deaths were reported.

CALIFORNIA, Western

NONE REPORTED.

COLORADO, Central and Northeast

Weld County

9 NW Greeley 01 1755MST 0 0 Hail (1.50)

Weld County

2 S Purcell 01 1827MST 0 0 Hail (1.25)

Weld County

10 E Purcell 01 1843MST 0.1 25 0 0 0 0 Tornado (F0)
1845MST

A small tornado touched down briefly in open country.

Weld County

5 ENE Eaton 01 1855MST 0 0 Hail (0.75)

Larimer County

2 SE Ft Collins 01 1923MST 0 0 Hail (1.00)

Weld County

3 NW Severance 01 1925MST 0 0 Hail (1.75)

Larimer County

5 SW Ft Collins 01 1932MST 0 0 Hail (0.75)

Weld County

5 W Ault 01 1943MST 0 0 Hail (0.75)

Weld County

5 E Nunn 01 1945MST 0 0 Hail (1.00)

Weld County

Pierce 01 2000MST 0 0 Hail (1.00)

Douglas County

Castle Rock 04 1558MST 0 0 0 Thunderstorm Wind (G56) ^M

Washington County

4 NW Elba 04 1902MST 0 0 Hail (1.00)

Sedgwick County

7 W Ovid 06 2020MST 0 0 0 Thunderstorm Wind (G52)

COZ040

Denver Metropolitan Area

16 1433MST 0 0 0 0 Excessive Heat

The record high temperature of 95 at Denver International Airport established or tied three different record extremes. The afternoon maximum temperature broke the previous record high for the day of 92 set over a century ago in 1895; it also marked the warmest that it has been so late in the month of September. In addition, the record maximum temperature also marked the 60th day that the 90 degree mark was been met or exceeded for the year, tying the previous record set in 1994.

COZ040

Denver Metropolitan Area

17 1140MST 0 0 0 0 Excessive Heat

The record high temperature of 95 at Denver International Airport broke three record extremes. The afternoon maximum temperature broke the previous record for the day of 94 set in 1895. It also marked the warmest it has been so late in the month of September, which incidentally was set the previous day. Also, the afternoon high temperature marked the 61st time during the year that the 90 degree mark was met or exceeded, breaking the record of 60 days set in 1994 and then tied the previous day.

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					Killed	Injured	Property	Crops	

COLORADO, Central and Northeast

COZ035>036-038>041 Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity

23	2000MST	0	0	Heavy Snow
24	0800MST			

An early fall snowstorm brought an end to the record 90 degree heat wave set a week earlier. Heavy snow fell in and near the Front Range Foothills as upslope conditions developed. In Fort Collins, the heavy wet snow caused tree limbs of still fully leafed trees to crack and break. In addition, the broken limbs downed some power lines which led to scattered electrical outages.

Snow accumulations in the foothills ranged from 7 to 15 inches, while amounts along western portions of the Urban Corridor generally range from 3 to 6 inches. Snowfall totals in the foothills included: 15 inches, 7 miles east-northeast of Virginia Dale, 13 inches, 4 miles south of Estes Park, 10 inches at Conifer, 9 inches in Allens Park and 11 miles southwest of Morrison, 8 inches at Crow Hill and 7 inches at Estes Park and Chief Hosa. Along the Urban Corridor, snowfall totals included: 6 inches at Boulder and Fort Collins, 5 inches at Ralston Reservoir, with 4 inches reported at Castle Rock and Morrison.

Boulder County

1 SW Boulder	29	1645MST	0	0	Thunderstorm Wind (G50) ^M
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Boulder County

4 S Boulder	29	1651MST	0	0	Thunderstorm Wind (G60) ^M
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Jefferson County

Jefferson Co Arpt	29	1700MST	0	0	Thunderstorm Wind (G52) ^M
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Adams County

Westminster	29	1704MST	0	0	Thunderstorm Wind (G66) ^M
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COLORADO, East Central

COZ090>092 Yuma County - Kit Carson County - Cheyenne County

01	0000MST	0	0	Drought
30	0000MST			

First Stage to Severe Drought Conditions continued across far eastern Colorado during the month. Fall crop harvest started early due to the dry weather.

Yuma County

3 S Eckley	04	2050MST	0	0	Hail (0.88)
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COLORADO, South Central and Southeast

Otero County

2 SE Rocky Ford	08	1320MST	0	0	Thunderstorm Wind (G52) ^M
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Alamosa County

Alamosa Arpt	08	1644MST	0	0	Thunderstorm Wind (G58) ^M
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Fremont County

Canon City	08	1750MST	0	0	Thunderstorm Wind (G52) ^M
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Fremont County

Penrose	08	1805MST	0	0	Thunderstorm Wind (G52)
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Pueblo County

Pueblo West	08	1818MST	0	0	Thunderstorm Wind (G56)
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Pueblo County

Bragdon	08	1830MST	0	0	Thunderstorm Wind (G56) ^M
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Pueblo County

2 E Boone	08	1840MST	0	0	Thunderstorm Wind (G56)
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Kiowa County

Sheridan Lake to 5 S Towner	21	1700MST 1720MST	12	100	0	0	50K	Tornado (F1)
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A tornado destroyed a small, poorly constructed mobile home and damaged some nearby grain bins on the far north side of Sheridan Lake. Some windows were also broken and shingles were ripped off houses. The tornado moved east-southeast through open country of Kiowa county and dissipated near the Colorado-Kansas border.

COZ066

Southern Sangre De Cristo Mountains

21	1835MST	0	0	High Wind (G80) ^M
	1838MST			

An isolate, brief, non-thunderstorm wind gust to 92 mph was recorded by a trained spotter in the mountains southeast of Fort Garland. No damage was reported.

COZ067-071>072

Teller County/Rampart Range/Pikes Peak - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge

23	1800MST	0	0	Heavy Snow
24	0500MST			

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					Killed	Injured	Property	Crops	

COLORADO, South Central and Southeast

An upper level disturbance, combined with some cold air, brought the first measurable snow of the season to the Pikes Peak Region. Snow amounts ranged from 1 to 4 inches in the Colorado Springs area and in Teller county.

Rio Grande County

South Fork	29	1220MST			0	0			Hail (1.75)
		1225MST							

COLORADO, West

Mesa County

9 ESE Whitewater to 9.5 ESE Whitewater	08	1305MST	0.4	40	0	0	1K		Tornado (F1)
		1310MST							

A tornado traveled east across two roads in an area just south of Kannah Creek. 100 year old trees were blown down and branches were twisted around some trees. A power pole was snapped off near a church. One-foot diameter tree limbs were blown over 100 yards away into a picnic area.

Mesa County

Palisade	08	1330MST			0	0	8K		Thunderstorm Wind (G60)
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Strong thunderstorm outflow winds in the east area of Palisade near the Colorado River snapped off 2 to 3 foot diameter tree limbs from 80 foot tall trees. One 6 foot diameter tree was split in half about 30 feet above the ground. Half of the tree fell to the ground, damaging a pickup, new boat, and a section of fence. A row of trees in an adjacent area were permanently bent over at a 45 degree angle.

Delta County

10 N Hotchkiss	08	1330MST			0	0			Thunderstorm Wind (G64) ^M
		1332MST							

Archuleta County

2 E Pagosa Spgs	08	1530MST			0	0	50K		Lightning
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Lightning struck a power pole and traveled into an adjacent garage/workshop. The garage/workshop and all contents, including an antique car, were totally destroyed by the resultant fire.

COZ004-013

Elkhead And Park Mountains - Flattop Mountains

23	0330MST			0	0				Heavy Snow
	1700MST								

A cold upper low from the north produced the first significant snowfall of the season over the mountains of northwest Colorado. 6 to 12 inches of snow fell across this area, with 12 inches reported on Yellowjacket Pass. The Tower RAWS site, 10 miles east of Steamboat Springs, also received 12 inches of snow.

COZ022

Animas River Basin

23	1200MST			0	0	2K			High Wind (G60)
	1300MST								

Strong winds knocked down a tree which fell directly onto a power line knocking out power for more than 700 Vallecito area residents. The power was out for more than 12 hours as LPEA technicians repaired the damage to the power line.

San Miguel County

Egnar	29	1345MST			0	0			Hail (0.75)
		1347MST							

CONNECTICUT, Northeast

Hartford County

South Windsor	09	1300EST			0	12	5K		Lightning
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Lightning struck a utility pole at a fair in South Windsor, then traveled through the fairgrounds' electrical system, injuring twelve people.

CTZ002

Hartford

29	0000EST			0	0				Record Cold
	2359EST								

The low temperature of 30 degrees at Bradley International Airport, recorded at 5:58 am, tied the record low for the date which was set in 1957.

CTZ002

Hartford

30	0000EST			0	0				Record Cold
	2359EST								

The low temperature of 31 degrees at Bradley International Airport, recorded at 6:02 am, tied the record low for the date which was set in 1978 and 1951.

CONNECTICUT, Northwest

NONE REPORTED.

CONNECTICUT, Southern

Fairfield County

Shelton	02	1412EST			0	0			Flash Flood
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Slow moving thunderstorms produced torrential rain that caused widespread flash flooding of low-lying and poor drainage areas in Shelton. NWS radar estimated rainfall rates of around 1.5 inches per hour, which lasted for at least 2 consecutive hours. A spotter

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CONNECTICUT, Southern

from Shelton measured 2.90 inches of rain in 2 hours.

DELAWARE

Sussex County Countywide

02 1330EST **0 0** **Flash Flood**
1630EST

Thunderstorms with torrential rain caused flash flooding, particularly in Broad Creek and Broadkill Hundreds. Doppler Radar storm total estimates reached between 4 and 5 inches in those hundreds. The flash flooding spread across roadways and caused several major closures. Delaware State Route 1 was closed for one quarter of a mile just south of Delaware State Route 16 near Milton. A stretch of U.S. 13 between Seaford and Bridgeville was also closed because of flooding. Traffic was backed up for about one mile. Storm totals (they were located outside of the heaviest rain area) included 1.33 inches in Greenwood and 1.07 inches in Georgetown. No serious injuries were reported.

New Castle County (Ilg)Wilmington Arpt

03 1600EST **0 0** **Heavy Rain**
1900EST

Thunderstorms with heavy rain caused poor drainage flooding in and around The New Castle County Airport. At the airport, 1.69 inches of rain fell within an hour and the storm total reached 2.82 inches, most of which fell between 5 p.m. and 8 p.m. EDT. This was a localized event, in nearby Wilmington, only 0.14 inches fell.

New Castle County Brandywine

14 2315EST **0 0** **100K 0 Lightning**

Lightning struck the detached garage of a home on Edgewood Drive in the Countryside Farms Development in Brandywine Hundred. The ensuing fire destroyed the garage and spread to and damaged the home. The three occupants escaped serious injury, but their Doberman Pinscher died in the garage. The frequent lightning caused about 3,000 homes and businesses to lose power in New Castle County.

Sussex County 3 SE Seaford

15 0145EST **0 0** **1K 0 Lightning**

Sussex County 2 SW Milton

15 0205EST **0 0** **15K 0 Lightning**

Lightning strikes ignited two fires in Sussex County during the early morning of the 15th. In Broadkill Hundred, lightning struck the eaves of a two story home on Sussex County Route 319. The fire damaged the attic and upper floor of the home and knocked a hole in the roof. In Broad Creek Hundred, a shed on Haven Drive burst into flames after being struck by lightning. In both places, no serious injuries were reported.

Kent County Marydel

19 1415EST **0 0** **Thunderstorm Wind (G50)**

A severe thunderstorm knocked down several trees and tore the siding from one home in Marydel.

New Castle County North Portion

19 1600EST **0 0** **Flood**
1700EST

The remnants of what once was Hurricane Gordon dropped heavy rain across the northern two-thirds of New Castle County and caused minor flooding along the Christina River as well as poor drainage flooding in low-lying areas. The rain was not unusually heavy, but came after what was already an unseasonably wet September and summer. Most of the heavy rain fell between 2 p.m. and 4 p.m. EDT. The Christina River at Coochs Bridge was above its 9 foot flood stage from 5 p.m. until 6 p.m. EDT on the 19th. It crested at 9.13 feet at 530 p.m. EDT. Storm totals included 1.82 inches in Newark and 1.54 inches at the New Castle County Airport. No serious damage or injuries were reported.

Kent County Countywide

25 1300EST **0 0** **Heavy Rain**
26 0700EST

New Castle County Countywide

25 1300EST **0 0** **Heavy Rain**
26 0700EST

Sussex County Countywide

25 1300EST **0 0** **Heavy Rain**
26 0700EST

A slow moving low pressure system dropped heavy rain across Delaware. Storm totals averaged between 1.5 and 3.5 inches with the highest amounts in Kent and Sussex Counties. The heaviest rain fell during the evening of the 25th. While the rain was heavy, hourly totals did not exceed 0.50 inches and this kept the major streams, creeks and rivers within their banks. Nevertheless there was considerable urban, low-lying area and poor drainage flooding. Storm totals included 3.73 inches in Bridgeville (Sussex County), 3.62 inches in Milford (Sussex County), 3.53 inches in Dover (Kent County), 3.28 inches in Greenwood (Sussex County), 2.20 inches in Millsboro (Sussex County), 2.15 inches in Lewes (Sussex County), 1.92 inches at the New Castle County Airport, 1.90 inches in Newark, 1.84 inches in Georgetown (Sussex County) and 1.57 inches in Wilmington (New Castle County). The low pressure system responsible for the heavy rain, traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. By the evening of the 26th, the low was well offshore.

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Killed	Injured	Property							

DELAWARE

DEZ003>004

Inland Sussex - Delaware Beaches

25	1700EST	0	0	0	Coastal Flooding
26	2100EST				

The combination of spring tides near the new moon, a high pressure system over New England and a low pressure system over the Middle Atlantic States produced widespread minor tidal flooding during the times of high tide from the evening of the 25th through the evening of the 26th. The highest tides occurred during the morning of the 26th. The low pressure system traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. The onshore flow persisted for several tide cycles. By the evening of the 26th, the low was far enough offshore for winds to start backing to the northwest. The highest tide at Lewes was 7.1 feet above mean lower low water (a departure of 2.3 feet above normal) the morning of the 26th.

DEZ001>004

New Castle - Kent - Inland Sussex - Delaware Beaches

30	2359EST	0	0	Unseasonably Wet
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September 2000 continued the trend of unseasonably wet weather for the state of Delaware. On a county weighted average, September monthly rainfall totals were all above average and ranged from 5.8 inches in New Castle County to 6.0 inches in Kent County to 7.3 inches in Sussex County. Normal monthly rainfall is around 3.7 inches. At the New Castle County Airport, the 6.61 inches of rain was the 11th wettest September on record dating back to 1894.

DISTRICT OF COLUMBIA

District Of Columbia

Countywide

02	1400EST	0	0	Heavy Rain
	1700EST			

Slow moving thunderstorms dropped heavy rainfall across the District during the afternoon of the 2nd. A total of 2.47 inches of rain was recorded in Georgetown and a total of 1.65 inches fell at Washington National Airport.

District Of Columbia

Countywide

24	1200EST	0	0	Heavy Rain
25	1800EST			

Showers and thunderstorms developed as a moist tropical airmass covered the region. Between midday on the 24th and the evening of the 25th, between 2 and 3.5 inches of rain fell. Totals included 3.58 inches in Northwest, 2.33 inches at the Arboretum, 2.14 inches at Washington National Airport, and 2.03 inches in Southeast.

FLORIDA, East Central

Okeechobee County

Okeechobee

01	2020EST	0	0	3K	Thunderstorm Wind (G50)
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Thunderstorm winds blew shingles off a roof and damaged a canvas and pole awning.

Orange County

Walt Disney World

03	1820EST	0	0	30K	Thunderstorm Wind (G50)
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Thunderstorm winds blew down trees and power lines in the Disney area. Some homes were damaged by falling trees.

Volusia County

Orange City

03	2015EST	0	0	30K	Thunderstorm Wind (G60)
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Thunderstorm winds blew down numerous trees and power lines in Orange City. Falling trees damaged six residences.

Orange County

Windermere

04	1650EST	0	0	Hail (1.75)
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Lake County

2 E Eustis

04	1736EST	0	0	Hail (0.75)
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Lake County

Eustis

04	1745EST	0	0	30K	Thunderstorm Wind (G60)
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Severe thunderstorms blew down numerous trees and power lines and severely damaged the roof and a large door at a car dealership in Eustis. Trees also fell on a pickup truck.

Volusia County

3 S De Leon Spgs

04	1825EST	0	0	Thunderstorm Wind (G50)
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Thunderstorm winds blew down a large tree 3 miles south of De Leon Springs.

Volusia County

Emporia

04	1900EST	0	0	10K	Thunderstorm Wind (G50)
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Thunderstorm winds blew down a large shed cover at a fern nursery.

Volusia County

Daytona Beach to

Ormond Beach

05	1430EST	0	0	Hail (0.88)
	1435EST			

Volusia County

De Land

19	1445EST	0	0	Hail (1.75)
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Volusia County

De Land

19	1450EST	0	0	Thunderstorm Wind (G60)
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Thunderstorm winds blew down numerous trees in the old downtown area of Deland.

Osceola County

Pine Grove

21	1618EST	0	0	1K	Thunderstorm Wind (G50)
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Thunderstorm winds blew down large trees onto power lines in Pine Grove.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>FLORIDA, Extreme Southern</u>									
Monroe County Marathon	09	1030EST 1040EST			0	0			Waterspout
Waterspout observed 30 miles southeast of Marathon.									
Monroe County Marathon	10	0705EST			0	0	0		Lightning
Lightning struck a residence causing structural and electrical damage. Damage amount is not known.									
Monroe County Summerland Key	10	0710EST 0718EST			0	0			Waterspout
3 waterspouts observed 1 mile northeast of summerland Key.									
Monroe County Marathon	11	0730EST 0740EST			0	0			Waterspout
2 waterspouts observed 2 miles south of Pigeon Key.									
Monroe County (Nqx)Key West Nas	26	1055EST 1104EST			0	0			Waterspout
Waterspout observed 3 miles north of Boca Chica Key.									
Monroe County Marathon	28	0650EST 0657EST			0	0			Waterspout
Waterspout observed 1 mile south of Marathon.									
Monroe County (Eyw)Key West Inl Ar	28	0803EST 0813EST			0	0			Waterspout
Waterspout observed 10 miles south of Key West.									
Monroe County (Eyw)Key West Inl Ar	28	1755EST 1803EST			0	0			Waterspout
Waterspout observed 5 miles northwest of Key West airport.									
Monroe County Big Pine Key	30	1705EST 1712EST			0	0			Waterspout
Waterspout observed 2 miles south of Big Pine Key.									
<u>FLORIDA, Northeastern</u>									
Putnam County Palatka	04	1530EST			0	0			Hail (0.75)
Marion County Reddick	05	1330EST			0	0	2.5K		Thunderstorm Wind
Large trees and power lines were blown down.									
Duval County Dame Pt	06	0836EST			0	0			Waterspout
On the St. Johns River near the Dames Pt. Bridge.									
Duval County Baldwin	06	1026EST			0	0			Funnel Cloud
Duval County 6 SSW Jax Craig Muni	06	1040EST	0.1	5	0	0	0		Tornado (F0)
A weak FO was observed touching down in an open area of an industrial park just east of UNF.									
Duval County 9 SW Jacksonville	06	1045EST	0.1	8	0	0	55K		Tornado (F0)
Weak FO. The tornado tossed a car on Blanding Blvd, caused some minor roof damage and blew down numerous trees and power lines. More than 7,000 customers were without power for most of the day.									
Duval County 6 W Jacksonville	06	1045EST			0	0	15K		Thunderstorm Wind
Roof damage to homes.									
Union County Lake Butler	06	1415EST			0	0	2.5K		Thunderstorm Wind
Large trees and power lines were blown down.									
Alachua County Micanopy	06	1559EST			0	0	2.5K		Thunderstorm Wind
Large trees and power lines were blown down.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
FLORIDA, Northeastern									
Marion County Ocala	06	1615EST			0	0	2K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Alachua County West Portion	06	1730EST 2100EST			0	0	5K		Flood
			One to three inches of rainfall in 1 1/2 hours produced numerous flooded roadways.						
Marion County West Portion	06	1730EST 1800EST			0	0	5K		Flood
			One to three inches of rainfall in 1 1/2 hours produced numerous flooded roadways.						
Putnam County Florahome	06	1830EST			0	0	2.5K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Clay County Belmore	06	1905EST			0	0	3K		Thunderstorm Wind
			Large trees and power lines were blown down.						
Flagler County 1 E Flagler Beach	07	0813EST			0	0			Waterspout
Duval County 1 E Mayport	07	1231EST			0	0			Waterspout
Duval County Jacksonville	07	1330EST			0	0	40K		Flood
			Rainfall amounts of 5 to 9 inches across downtown and the county caused more than 50 streets to be flooded.						
Duval County Countywide	09	1800EST 2000EST			0	0	50K		Flood
			Four inches of additional rainfall caused flood conditions to return to the county. Numerous streets were closed with swamped cars stranded in many locations.						
St. Johns County Anastasia	16	1515EST			1	0			Lightning
		M14OU							
Alachua County Gainesville Arpt	17	1840EST			0	0			Funnel Cloud
Marion County Ocala	22	1755EST			0	0			Funnel Cloud
St. Johns County .5 E Vilano Beach	29	1125EST 1130EST			0	0			Waterspout
FLORIDA, Northwest									
Leon County Countywide	06	0700EST 1400EST			0	0	150K		Flood
			Up to four inches of rain within a six-hour period caused considerable street flooding and traffic accidents throughout Tallahassee. Lake Ella overflowed its banks closing the park. A drainage pipe on Pinewood and John Knox Roads was crushed under the weight of the rainfall and the subsequent runoff flooded the intersection. Reported by the Leon County EMA and Tallahassee Police.						
Jefferson County Countywide	06	0700EST 1400EST			0	0	75K		Flood
			The Jefferson County EMA reported several county roads closed due to flood waters after four to six inches of rain accumulated since midnight.						
Wakulla County Countywide	06	0700EST 1400EST			0	0	75K		Flood
			The Wakulla County EMA reported several county roads closed due to flood waters after nearly four inches of rain accumulated since midnight.						
Madison County Countywide	06	0730EST 1500EST			0	0	75K		Flood
			The Madison county EMA reported several county roads closed to high water after four inches of rain had accumulated since midnight.						
Franklin County 4 NW East Pt	06	1945EST			0	0			Waterspout

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, Northwest

A waterspout was sighted by a Franklin County Sheriff's deputy over East Bay.

Gulf County Port St Joe

06 2107EST **0 0 50K** **Thunderstorm Wind**
2112EST

Straight-line winds downed numerous trees and power lines across a one-mile swath of Port St. Joe. At least a dozen homes and several local businesses along a path from First Street to 20th Street were damaged. Torrential rains caused storm drains to back up in the downtown area where several businesses took on water. Reported by the Gulf County Sheriff and WJHG-7 TV meteorologist.

FLZ015>019-026>029-034 Franklin - Gadsden - Leon - Jefferson - Madison - Liberty - Wakulla - Taylor - Lafayette - Dixie

17 0800EST **0 0** **Hurricane**
18 0800EST

Hurricane Gordon, a minimal Category 1 storm, weakened to a tropical storm just prior to landfall near Cedar Key, Florida during the late evening hours of Sunday, September, 17, 2000. Heavy rainfall associated with Gordon's outer bands began to affect mainly eastern portions of the Florida Big Bend as early as Sunday morning. Storm total rainfall varied from 0.71 inches at Tallahassee to 4.83 inches at Cross City, Florida. The highest sustained wind recorded was 33 mph with a peak gust of 42 mph at Cross City. The lowest sea-level pressure recorded was 997 mb at Cross City. There were no reports of beach erosion, flooding or tornadoes.

FLZ007>019-026>028 Inland Walton - Coastal Walton - Holmes - Washington - Jackson - Bay - Calhoun - Gulf - Franklin - Gadsden - Leon - Jefferson - Madison - Liberty - Wakulla - Taylor

21 1800EST **0 0** **Tropical Storm**
23 0000EST

Tropical Storm Helene made landfall near Fort Walton Beach during the late morning hours of Friday, September 22, 2000. Helene quickly weakened to a tropical depression Friday afternoon as it accelerated northeast into southeast Alabama. Storm total rainfall ranged from a half inch at Perry and to 9.56 inches at Apalachicola, Florida. The highest sustained wind of 30 mph with a peak gust of 45 mph was recorded at Cape San Blas. The lowest sea-level pressure was 1011 mb at Panama City.

Coastal storm tides of two feet or less above astronomical tide levels were common, with only minor beach erosion reported. The torrential rainfall caused extensive flooding throughout Franklin, Wakulla and Leon counties. The flooding prompted city and county officials to close schools, universities and public offices and kept emergency crews busy rescuing stranded motorists. Utility crews worked diligently to restore power to homes, and clearing streets and county roads of storm debris. Numerous homes along the Sopchoppy River in Wakulla County were flooded, with secondary and county roads washed out. The river crested at 34.9 feet, breaking the record of 34 feet in 1970. Numerous homes in northern Wakulla County were affected when sinkholes backed up with flood waters. Flooding was also reported at Walker Crossing and at the Wildwood Golf Course near Medart. Nearly 70 streets in Tallahassee were impassable due to high water. Over 100 homes in Leon County were affected by flood waters. 50 residents were evacuated from the flooded Carriage Estates mobile home park and another 20 were rescued from the Sandpebble Apartments in Tallahassee. Scattered power outages left 5,000 homes without electricity in Leon and Wakulla counties when water-logged tree limbs were blown into power lines. Minor flooding was reported in Bay, Jefferson, Calhoun, Madison and Gulf counties.

Numerous tornadoes were reported. In Franklin County, brief touchdowns at Alligator Point, Eastpoint and in several rural wooded areas. In Wakulla County, two touchdowns, of which one destroyed several mobile homes. In Jefferson County, two touchdowns which damaged two mobile homes, a barn and vehicle. The counties of Bay, Calhoun, Franklin, Gulf, Jefferson, Leon and Wakulla were declared federal disaster areas.

Gulf County Countywide

22 0700EST **0 0 100K** **Flood**
1500EST

Between two and six inches of rain from Tropical Storm Helene inundated much of the county. Several county and secondary roads were flooded. A portion of U.S. Highway 98 was flooded in Port St. Joe. Reported by the Gulf County EMA.

Franklin County Countywide

22 0700EST **0 0 200K** **Flood**
1700EST

Between six and ten inches of rain from Tropical Storm Helene inundated the county. Several homes were flooded in Apalachicola, including Bluff Road near the Apalachicola River, 17th Street and Brownsville Road west to the municipal airport. A portion of U.S. Highway 98 five miles west of Carrabelle was flooded. Highway 67 from County Road 13 to the Franklin-Liberty county line was flooded. Reported by the Franklin County EMA.

Franklin County 4.5 SE St Teresa

22 0705EST **0.3 30 0 0 25K** **Tornado (F0)**

A waterspout came ashore at Alligator Point. A home on Gulf Shores Boulevard sustained minor damage and several trees were uprooted. Reported by the Franklin County EMA.

Franklin County 5 N East Pt to 6 N East Pt

22 0715EST **0.3 50 0 0 10K** **Tornado (F1)**
0717EST

An F1 tornado touched down along Highway 65 at the East Bay Tower on the southwest edge of Tates Hell Swamp. Numerous trees and power lines down. Reported by the Franklin County EMA.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Crops	Character of Storm
<u>FLORIDA, Northwest</u>									
Wakulla County 2 N Sopchoppy	22	0745EST	0.3	30	0	0	5K		Tornado (F0)
A brief F0 tornado touched down and uprooted some trees and power lines. Reported by the Wakulla County EMA.									
Wakulla County 5 ESE Hilliardville to 4 E Hilliardville	22	0855EST	1.5	65	0	0	175K		Tornado (F1)
An F1 tornado touched down just west of U.S. Highway 319 and a few miles north of State Road 267, near the Buck Miller Road area of Riversink. One mobile home was destroyed. The tornado then skipped over to Dillan road and destroyed several mobile homes which were demolished by fallen trees. Numerous trees and power lines were down. Reported by the Wakulla County EMA.									
Jefferson County Countywide	22	0900EST 1700EST			0	0	50K		Flood
Up to eight inches of rain from Tropical Storm Helene inundated the county. Several streets in Wacissa and some county roads were closed to flood waters. Reported by the Jefferson County EMA.									
Wakulla County Countywide	22	0900EST 1700EST			0	0	1M		Flood
Excessive rainfall of eight to ten inches from Tropical Storm Helene caused considerable flooding with more than 120 homes damaged. The worst flooding was along the Sopchoppy River in western Wakulla County along County Road 375 to State Road 20, including the Indian Summers and Mount Beasor subdivisions. Approximately 50 homes were flooded. Many county and access roads were impassable and some were washed out. Several bridges on secondary roads were completely flooded. Flood waters had spilled over onto Harvey Mill and Lawhon Mill roads in Crawfordville. Nearly two feet of water covered Springhill Road. Several creeks and streams were bankfull. Storm runoff caused the Black Creek to swell and cover part of Bloxham Cutoff with a foot of water. There were only voluntary evacuations from coastal and low-lying areas. Reported by the Wakulla County EMA.									
Leon County Countywide	22	0900EST 1700EST			0	0	500K		Flood
Between eight and ten inches of rain from Tropical Storm Helene inundated the county, including the city of Tallahassee. Residents from the Carriage Estates mobile home park and the Sandpebble apartment complex were evacuated when flood waters threatened. Numerous city streets, intersections and low-lying areas were closed to flooding. More than 100 homes in Leon County were flooded. U.S. Highway 90 west of Tallahassee to the Gadsden County line was closed by high water. Schools, universities and most public offices were closed. Reported by the Leon County EMA and Tallahassee Police.									
Jefferson County 1 W Waukeenah	22	1300EST	0.3	25	0	0	50K		Tornado (F0)
Two mobile homes were damaged by a brief F0 tornado. Reported by the Jefferson County EMA.									
Jefferson County 3 SW Wacissa to 2 SW Wacissa	22	1310EST 1315EST	1	40	0	0	40K		Tornado (F0)
An F0 tornado damaged a mobile home, barn and a vehicle. Several county roads were closed due to fallen trees. Reported by the Jefferson County EMA.									
Madison County 4 NW Greenville	22	1355EST	0.3	25	0	0	1K		Tornado (F0)
A brief F0 tornado touched down along Lake Logan Road and uprooted numerous trees. Reported by the Madison County EMA.									
Holmes County Ponce De Leon	25	1530EST			0	0	0.50K		Thunderstorm Wind
Several large trees down. Reported by the Holmes County EMA.									
<u>FLORIDA, Southern</u>									
Broward County Sunrise Golf Vlg	06	1000EST			0	0	20K		Lightning
A lightning strike started a roof fire that eventually destroyed a house.									
Dade County Homestead	07	0700EST			0	0			Funnel Cloud
Dade County Kendall	07	0730EST			0	0			Funnel Cloud
Palm Beach County West Palm Beach	07	0820EST			0	0			Funnel Cloud
Dade County West Miami	07	0940EST			0	0			Funnel Cloud
Numerous funnel clouds were sighted throughout the morning.									
Collier County Naples	07	1800EST 1900EST			0	0			Urban/Sml Stream Fld
Two to three inches of rain in one hour caused minor street flooding.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Crops	Character of Storm
FLORIDA, Southern									
Collier County Naples	11	1630EST 1730EST			0	0			Urban/Sml Stream Fld
Two to three inches of rain caused street flooding.									
FLZ063-067>069-072	Glades - Inland Palm Beach - Coastal Palm Beach - Coastal Collier - Coastal Broward								
	16	1000EST			0	0	50K		Tropical Storm
	17	1200EST							
Tropical Storm Gordon formed in the Gulf of Mexico about 375 miles west of Naples late on September 15. It moved northeast, briefly intensified to hurricane strength, then moved ashore in the Big Bend area of Florida as a tropical storm late on September 17. The outer fringes of Gordon moved across south Florida producing 3-6 inches of rain, numerous funnel clouds and waterspouts and at least three tornadoes.									
Palm Beach County Boca Raton	16	1515EST 1520EST	0.4	10	0	0			Tornado (F0)
A waterspout moved ashore and briefly touched down as a tornado near Power Line Road and Palmetto Park Avenue.									
Palm Beach County 1 E Boca Raton	16	1600EST			0	0			Waterspout
Two waterspouts were sighted in the Atlantic just offshore Boca Raton.									
Broward County 2 E Deerfield Beach	16	1620EST			0	0			Waterspout
A SKYWARN spotter sighted a waterspout in the Atlantic.									
Broward County 2 E Lighthouse Pt	16	1650EST			0	0			Waterspout
A SKYWARN spotter sighted a waterspout in the Atlantic.									
Broward County 5 W Tamarac	16	1715EST	1	30	0	0			Tornado (F1)
A tornado touched down in the Everglades west of the Sawgrass Expressway. It was videotaped by a storm chaser.									
Palm Beach County Boynton Beach	16	1750EST	0.3	10	0	0			Tornado (F0)
The public reported a tornado touched down near Woolbright Road and 23 Avenue.									
Broward County Hallandale	17	0915EST	0.2	20	0	0	50K		Tornado (F0)
A tornado alit in the Evergreen Mobile Home Park and damaged roofs and awnings.									
Broward County Coconut Creek	17	0940EST			0	0			Thunderstorm Wind (G50)
A SKYWARN spotter reported large limbs blown down by winds estimated at 62 mph.									
Palm Beach County 1 E Juno Beach	27	0645EST			0	0			Waterspout
The public reported two waterspouts in the Atlantic just offshore Juno Beach.									
Palm Beach County 1 E Delray Beach	27	0735EST			0	0			Waterspout
The public reported a waterspout in the Atlantic.									
Broward County 12 SE Pompano Beach A	27	0833EST			0	0			Waterspout
A pilot reported a waterspout in the Atlantic coastal waters.									
Palm Beach County 8 N Canal Pt	27	1327EST			0	0			Waterspout
A waterspout was sighted over Lake Okeechobee.									
Collier County 2 S Immokalee	27	1445EST			0	0			Funnel Cloud
A funnel cloud was sighted.									
Palm Beach County Pahokee Pbi Co Arpt	28	1418EST			0	0			Funnel Cloud
A funnel cloud was seen near the airport.									
Collier County 1 S Marco	28	1440EST			0	0			Funnel Cloud
Several funnel clouds were sighted south of Marco Island.									
Broward County Sunrise Golf Vlg	29	0945EST			0	0			Funnel Cloud
Several funnel clouds were sighted.									
Broward County 4 E Lauderdale By The	29	1245EST			0	0			Waterspout
Several waterspouts were seen in the Atlantic.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>FLORIDA, Southern</u>									
Broward County Ft Lauderdale	29	1625EST			0	0			Funnel Cloud
A funnel cloud was seen.									
Palm Beach County Boynton Beach	30	0640EST 0800EST			0	0			Urban/Sml Stream Fld
Street flooding was reported in Boynton Beach.									
<u>FLORIDA, West Central</u>									
Pinellas County 5 W Tarpon Spgs to 3 W Tarpon Spgs	02	1335EST 1351EST			0	0	0	0	Waterspout
The public reported a waterspout near the south end of Anclote Key or about five miles west of Tarpon Springs.									
Polk County 3 W Winter Haven to Auburndale	03	1546EST 1555EST			0	0	50K	0	Thunderstorm Wind
The Polk County Emergency Management reported that thunderstorm winds caused carport, shed, shingle, siding and glass damage to a few homes, downed several large trees and power lines along County Road 655 from near Jan-Phyl Village north to Auburndale. Newspaper accounts stated that a homeowner observed thunderstorm winds apparently lift and sweep away a pet cat on the 200 block of Fourth Street in the Jan-Phyl Village.									
Polk County 7 NE Bartow	03	1550EST			0	1	0	0	Lightning
The charge from a nearby lightning strike injured a 36 year old man who was holding onto the aluminum frame of the sliding door of his home on the 100 block of Madera Drive northeast of Bartow.									
Hernando County 10 NW Brooksville	05	1205EST			0	0	20K	0	Lightning
Lightning struck and ignited a fire in bedroom of a home on the 11300 block of Furley Avenue in Royal Highlands of northwest Hernando county.									
Manatee County 1 W Palmetto	05	1536EST			0	0	0	0	Waterspout
A waterspout was reported by the Manatee County Emergency Management over the Manatee River, one mile west of Palmetto.									
Pinellas County 4 NW Palm Harbor to .5 NW Palm Harbor	06	1500EST 1504EST			0	0	0	0	Waterspout
A waterspout was reported by the public two miles north of Honeymoon Island or about four miles northwest of Palm Harbor.									
Sumter County Lake Panasoffkee	06	1513EST			0	0	5K	0	Thunderstorm Wind
The Sumter County Fire Rescue reported that 50 to 60 mph downburst winds downed a few trees and several large branches in the vicinity of Lake Panasoffkee in northern Sumter County.									
Manatee County 4 SW Bradenton	09	1135EST	0.1	5	0	0	2K	0	Tornado (F0)
The public reported, through the Manatee County Emergency Management and print media, that a very small tornado (gustnado) briefly touched downed and damaged a home roof awning and destroyed a metal pole and tarp canopy of a Wal-Mart store on the 5300 block of West Cortez Road in Bradenton.									
FLZ039-042-048>050-050>052-055>057-060>062-065									
Levy - Citrus - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee									
	17	0330EST			0	0	5.0M	0	Hurricane
	18	0400EST							

Hurricane Gordon moved northeast across the eastern Gulf of Mexico and brought mainly 30 to 40 mph sustained winds and 50 to nearly 70 mph tropical storm force wind gusts to mainly coastal areas of Southwest and West Central Florida throughout the daylight hours of the 17th. Gordon's ill-defined center made landfall near the Suwannee River around midnight of the 18th. Official, maximum sustained winds of 53 mph, with gusts as high as 68 mph, were observed at the C-MAN automated weather sensor at Cedar Key in Levy county prior to landfall near the mouth of the Suwannee River during the late evening of the 17th.

Hurricane Gordon produced maximum storm tides above mean sea level of 2 to 4 feet from Lee north to Manatee county, 4 to 5.5 feet along the Pinellas and Hillsborough county coastlines, and 2 to 4 feet from Pasco north to Levy county on the 17th.

Coastal flooding from storm surge was minimal from Lee county north to the Tampa metropolitan area. Near downtown Tampa, a foot of water covered the south and northern lanes of Bayshore Boulevard during midday on the 17th. Coastal flood waters between one and two feet covered coastal roads along Longboat Key in Manatee county and Siesta and Casey Keys in Sarasota county. In Pinellas county, nearly a foot of water covered coastal roads from St. Pete Beach to Clearwater. The Courtney Campbell Parkway, separating Pinellas and Hillsborough counties, was closed, due to storm surge flooding, from nearly 5 to 9 pm on the 17th.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

Beach erosion was minor from Lee north to Charlotte, moderate to severe along Sarasota and Manatee counties, minor to moderate over Manatee, Pinellas, Pasco and Hernando counties. At Bradenton Beach in Manatee county, nearly 100 feet of pristine beach, five to six feet in depth, was stripped away by wave action from Hurricane Gordon. In Sarasota county, storm surge and wave action from Gordon caused nearly 1.1 million dollars in beach erosion while in Manatee county, beach erosion was estimated at 500 thousand dollars.

Inland flooding from rainfall occurred over low-lying and urban areas in mainly Lee, Charlotte, Sarasota, Manatee, Hardee, DeSoto, Highlands and southern Polk counties (see flood entries).

Eastern rain bands of Hurricane Gordon spawned at least five known tornadoes, two F1's and three F0's over Central and Southwest Florida (see tornado entries).

Damage in Levy county was confined to roofs and toppled trees, mainly in the Cedar Key area, where a total of \$100,000 dollars was estimated.

Damage in Citrus county was confined to a few downed trees, power lines and snapped branches from Sulphur Springs south to Ozelto amounting to less than \$25,000 dollars.

Damage in Hernando county was confined to ten homes that suffered floodwater damage along the coast along with a few toppled trees and downed power lines. Damage in Hernando county was estimated at \$100,000 dollars.

Damage in Pasco county was confined to 15 roof damaged villas, downed trees and damaged vehicles in the New Port Colony Villas subdivision in New Port Richey estimated at \$250,000 dollars.

In Pinellas county, 51 single-family homes, 32 mobile homes, 27 multi-family homes and 24 businesses sustained minor wind or water damage. Estimated cost of the damage in Pinellas county was nearly \$500,000 dollars.

In Hillsborough county, 40 homes in low lying coastal areas from Ruskin to Gibsonton to Riverview, incurred flooding from storm surge. Also, several homes were damaged from wind toppled trees and large branches throughout Hillsborough county. Estimated cost of the damage in Hillsborough county was near \$500,000 dollars.

In Manatee county, 25 homes and businesses were flooded in Bradenton Beach and several homes incurred minor to moderate roof damage in Anna Maria. At Coquina Beach in Manatee county, 60 mph wind gusts, associated with an outer feeder band of Gordon, toppled life guard towers and destroyed an anemometer. Property damage from Hurricane Gordon was estimated at nearly \$500,000 dollars in Manatee county.

In Sarasota county, eight foot high waves, caused nearly \$600,000 in property damage to the Venice Municipal Fishing Pier. The hurricane induced waves ripped a 20 foot section and three 50 foot concrete pilings from the northern section of the pier.

In Lee county, tropical storm force winds caused roof, awning and lanai damage to nine homes, toppled several large trees and branches, and downed power lines across Cape Coral and Ft. Myers. Also, tornadoes, associated with outer feeder bands of Hurricane Gordon, caused significant damage on Sanibel Island of extreme western Lee county (see Lee county tornado entries).

Max Wind Gust:	68 mph - Cedar Key, Levy Co.	2153 EST	09/17
Lowest Pressure:	994.2 mb - Cedar Key, Levy Co.	2200 EST	09/17
Max Rainfall:	6.39 in - Page Field, Ft. Myers, Lee Co.	0000-2400 EST	09/17

Lee County 2 E Sanibel to Bokeelia

17	0343EST	18	20	0	0	2M	Tornado (F1)
	0417EST						

A fast moving tornado, on the low end of the F1 scale, associated with an outer band of hurricane Gordon, touched down along East Gulf Drive, two miles east of Sanibel on Sanibel Island, and caused extensive damage to two condominium complexes, two dozen nearby homes and lanais.

The tornado moved north northwest and sporadically touched down along rural County Road 767 on Pine Island in western Lee county. The tornado damaged the roofs of a few homes, carports and toppled or snapped palm trees along it's path. The tornado lifted and dissipated near Bokeelia on the north side of Pine Island. Residents in the path of the tornado in Sanibel indicated that they heard the sound of roaring train and their ears felt an air pressure change as it passed overhead.

Lee County Sanibel to 2 WNW Matlacha

17	0433EST	14	65	0	0	1M	0	Tornado (F1)
	0454EST							

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

A tornado, on the high end of the F1 scale, associated with an outer band of Hurricane Gordon, touched down on the south side of Sanibel Island and rapidly moved north northwest across Periwinkle Way where it removed roofs, destroyed lanais, downed trees, power lines and large branches across the island.

The tornado then moved over southern Pine Island where it widened to nearly 200 feet in width and uprooted or stripped numerous mangrove trees. The tornado continued rapidly north northwest along and east of County Road 767 until it moved over Little Pine Island.

The tornado caused significant roof damage to two businesses and at least ten homes, carports, garages and lanais along Pine Island Road, west of Matlacha, before it dissipated on the northern side of Little Pine Island. Also, more than a dozen trees were uprooted and five utility poles downed by the tornado along Pine Island Road near west of Matlacha. Residents along Pine Island Road indicated that the tornado sounded like a loud machine or train as it passed overhead.

Charlotte County

4.5 S Port Charlotte to
1.5 NE Port Charlotte

17	0443EST 0454EST	6	5	0	0	75K	0	Tornado (F0)
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A fast moving tornado, associated with an outer rainband of Hurricane Gordon, briefly touched down near the Port Charlotte Yacht Club and Public Beach near Harbor Boulevard in Port Charlotte. The tornado continued to sporadically touch down along a narrow path as it moved rapidly north northwest across Charlotte county. The tornado damaged the roofs of a few homes, a couple of carports and downed a few trees, power lines and large branches before it crossed into Sarasota County.

Charlotte County Port Charlotte

17	0450EST			0	0	0	0	Hail (1.00)
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The Charlotte County Sheriffs Department reported that one of their deputies observed quarter sized hail near the intersection of U.S. Highway 41 and Murdock Circle in Port Charlotte.

Sarasota County

6 NE North Port to
9 NE North Port

17	0507EST 0512EST	3	5	0	0		0	Tornado (F0)
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A short lived tornado, that originated in Charlotte county and was associated with an outer rainband of Hurricane Gordon, briefly touched down, snapped a few trees, downed power lines and damaged a few carports, east of the intersection of Interstate 75 and Toledo Blade Boulevard. The tornado continued to sporadically touch down along a narrow path as it moved rapidly north across Interstate 75 over rural southeast Sarasota county before it lifted and dissipated.

Lee County

Bonita Beach to
North Ft Myers

17	0530EST 2330EST			0	0	250K	0	Flood
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Charlotte County

Punta Gorda to
Englewood

17	0600EST 0800EST			0	0	50K	0	Flood
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Sarasota County

Sarasota to
North Port

17	0600EST 0800EST			0	0	100K	0	Flood
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Highlands County

Venus to
Brighton

17	0700EST 1000EST			0	0	20K	0	Flood
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Manatee County

Bradenton to
Myakka City

17	0700EST 1000EST			0	0	100K	0	Flood
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De Soto County

Arcadia to
Ft Ogden

17	0730EST 1000EST			0	0	25K	0	Flood
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Hardee County

Wauchula to
Gardner

17	0800EST 1000EST			0	0	25K	0	Flood
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Hillsborough County

Appollo Beach to
Sun City Center

17	0800EST 1000EST			0	0	50K	0	Flood
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Pinellas County

Pinellas Park to
Tierra Verde

17	0800EST 1030EST			0	0	150K	0	Flood
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Polk County

Bartow to
Ft Meade

17	0800EST 1000EST			0	0	25K	0	Flood
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Eastern rain bands associated with Hurricane Gordon produced six to eight inches of rain in less than 18 hours over parts of Lee and Charlotte counties in Southwest Florida on the 17th. Two to four inches of rain in less than 18 hours was common over parts of Sarasota, Manatee, Hardee, De Soto and southern Highlands counties with isolated amounts of up nine inches reported near Sebring in Highlands county. Lessor rain amounts associated with Hurricane Gordon of 1 to 3 inches were common over southern portions of

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

Pinellas, Hillsborough and Polk counties.

Several homes in low-lying and poor drainage areas incurred damage from the floodwaters over parts of Lee, Charlotte, Sarasota, Hardee, De Soto, Manatee and extreme southern Highlands and Pinellas counties. Several vehicles in Lee and Charlotte county incurred damage from floodwaters, mainly at flooded intersections and low-lying roadways.

Highlands County

Lake Placid to
6 W Sebring

17 0715EST 17 5 0 0 25K 0 Tornado (F0)

A fast moving tornado, associated with an outer rainband of Hurricane Gordon, was observed to sporadically touch down by a Skywarn Spotter in Lake Placid. The tornado downed a few trees, toppled power lines and snapped several branches in Lake Placid before it continued to move north northwest over rural semi-wooded western Highlands county. The tornado was last observed at Highlands Hammock State Park where it touched down and destroyed a ranger outhouse before it receded and dissipated.

Hillsborough County

Temple Terrace to
7 NW Tampa

19 1810EST 1815EST 0 0 100K 0 Thunderstorm Wind

Skywarn Spotters and law enforcement reported that thunderstorms downed several trees, numerous large branches and power lines from the Town N' Country area of northwest Tampa to Temple Terrace.

Pinellas County

Palm Harbor

19 1826EST 0 0 25K 0 Thunderstorm Wind

The public reported that thunderstorm winds damaged the roof of a commercial building under construction, downed a few large trees and several large branches near the intersection of U.S. Highway 19 and Tampa Road in Palm Harbor.

Hernando County

Brooksville

20 2100EST 0 0 250K 0 Lightning

Lightning struck and caused \$250,000 dollars in damage to the Hernando county governments telephone and computer system in Brooksville.

FLORIDA, West Panhandle

Escambia County

Pensacola Beach

17 1830CST 1835CST 1 0 Rip Currents

Rough seas resulting from Tropical Storm Gordon, which was moving across the extreme Eastern Gulf of Mexico, claimed the life of a Louisiana man, swimming near Pensacola Beach. The man and his sister were swimming with a bodyboard, when they began having trouble in the rough seas. The woman was able to swim ashore but the man disappeared in the rough surf. His body was not found until Tuesday morning.
M23IW

Escambia County

Pensacola Beach

20 0900CST 0905CST 1 0 Rip Currents

A Florida man drowned while swimming in rough surf.
M58IW

FLZ001>006

Inland Escambia - Coastal Escambia - Inland Santa Rosa - Coastal Santa Rosa - Inland Okaloosa - Coastal Okaloosa

21 0900CST 0 0 Tropical Storm
22 0900CST

Tropical Storm Helene affected the region during the later half of the third week of September. The area was put under a Tropical Storm Warning at 900 AM, September 21 that continued until 900 AM, September 22. A Hurricane Watch was issued for a short time from 400 PM on September 21 until 400 AM on September 22. Tropical Storm Helene made landfall in the vicinity of Fort Walton on the morning of September 22. The highest sustained winds of 24 knots were reported at Destin. Peak wind gusts were 35 knots at Destin and 38 knots on Pensacola Beach. The lowest Sea Level Pressure observed was 1005.7 MB at Eglin AFB. The heaviest rainfall fell over Okaloosa county, where Crestview received 4.60 inches, and Eglin AFB received 2.70 inches. No major flooding was reported, primarily due to the fact that the region had been in a drought throughout most of the summer. Estimated maximum storm surge was around 1 foot, which resulted in minor coastal flooding near Fort Pickens on Pensacola Beach. Only minor beach erosion occurred elsewhere along the Northwest Florida coast.

GEORGIA, East Central

Burke County

Waynesboro

22 2245EST 0 0 0 Thunderstorm Wind (G50)

EOC reported trees down in the Waynesboro area and on Porter Carswell and George Perkins roads.

GEORGIA, Lower

Glynn County

Brunswick

04 1715EST 0 0 2.5K Thunderstorm Wind

Large trees and power lines were blown down.

Camden County

Kingsland

04 1800EST 0 0 1.5K Thunderstorm Wind

Large trees and power lines were blown down.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000								
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Character of Storm
<u>GEORGIA, Lower</u>								
Camden County St Marys	06	1310EST 1500EST			0	0	10K	Flood
Roads and streets flooded.								
Coffee County West Green to Nicholls	22	1015EST	0.5	10	0	0	45K	Tornado (F0)
Weak FO. Tornado skipped along the surface. Damaged several farm buildings.								
<u>GEORGIA, North and Central</u>								
Cherokee County Canton	01	0500EST			0	0	200K	Lightning
The Cherokee Tribune reported that lightning struck a home on Canton Street. The lightning was believed to have started a fire in the kitchen. The resulting fire completely destroyed the entire home and all of its contents. All of the residents escaped injury.								
Polk County Rockmart	01	0800EST			0	0		Urban/Sml Stream Fld
The Polk county 911 center reported that high water on U.S. Highway 278 and Georgia Highway 113 caused several accidents. No damage estimate was provided.								
Haralson County Buchanan	01	1709EST			0	0		Urban/Sml Stream Fld
The Haralson county 911 center reported that water was flowing across several roads in the city, but no road closures were reported.								
Bibb County 2 SE Macon	03	1825EST			0	0	5K	Urban/Sml Stream Fld
The Bibb county Emergency Management Director reported minor flooding on U.S. Highway 41 in the south part of Macon. In addition, small streams in the area were out of their banks and up to 2 feet of water was reported in a nursing home in the southeast part of the city. Radar rainfall estimates and surface observation reports indicated that 2 to 3 inches of rain fell in the area in a 1 to 2 hour period.								
De Kalb County Stone Mtn	04	2000EST			0	0	5K	Thunderstorm Wind
The De Kalb county 911 center reported some trees down, some of which were on power lines.								
De Kalb County Tucker	04	2014EST			0	0		Hail (0.75)
The De Kalb county 911 center reported dime size hail.								
Walton County Monroe	04	2015EST			0	0	5K	Thunderstorm Wind
The Walton county 911 center reported some trees and power lines down.								
Gwinnett County 3 SE Duluth	04	2022EST			0	0	2K	Thunderstorm Wind
The public reported five small trees and one large tree down about 1/2 mile northeast of the Gwinnett County Mall.								
Dade County Trenton	20	2150EST			0	0		Hail (0.75)
A trained spotter reported dime size hail in Trenton.								
Walker County La Fayette	20	2158EST			0	0	30K	Lightning
The Walker county 911 center reported that lightning set a house on fire. The extent of the damage was unknown.								
Fannin County 3 SE Blue Ridge	20	2230EST			0	0	55K	Lightning
The Blue Ridge News Observer reported that lightning struck the county's 911 emergency radio repeater tower on Brawley Mountain completely knocking out the normal emergency communications system.								
White Cnty Helen to Cleveland	21	0010EST 0021EST			0	0	5K	Thunderstorm Wind
The White county 911 center, along with a former National Weather Service employee living in the area, reported several trees down, with others snapped off above ground level								
White County Cleveland	21	0055EST			0	0		Urban/Sml Stream Fld
The White county 911 center reported some street flooding in Cleveland.								
De Kalb County Brookhaven	21	0600EST			0	0	25K	Lightning
The Atlanta Journal and Constitution reported that lightning started a fire on Newbridge Trace in the northern part of the Brookhaven community.								
Gwinnett County Countywide	21	0600EST 0930EST			0	2	625K	Lightning

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GEORGIA, North and Central

The Atlanta Journal and Constitution, along with the Gwinnett Daily Post, reported that lightning struck 19 homes, 2 apartments, an office park, and sparked several grass fires across the county. The office park, located in Lilburn on Beaver Ruin Road, sustained minor damage when the attic was set on fire. Of the 19 homes struck, significant damage was done to one on Cold Springs Drive in Lilburn. The entire attic of the home was engulfed in flames when the firefighters arrived. There were also two lightning related injuries in the county. A 41-year old female was injured while pumping gas at a Texaco station on Five Forks Trickum Road. She was barely able to move her arm for some time thereafter. A 14-year old girl was injured when lightning struck the metal rail on which she was leaning. Immediately, her hands and feet tingled and her head hurt. However, neither of the injuries was reported to be serious as the lightning strikes appeared to be secondary. The fire department reported that they received 97 lightning strike related calls during the 3 1/2 hours of thunderstorm activity.

Cobb County Marietta to Smyrna

21 0700EST 0 0 Urban/Sml Stream Fld

The Marietta Daily Journal reported street flooding on several streets in Marietta and Smyrna. Allgood Road in Marietta was closed when a nearby creek flooded the road with 3 to 4 feet of water. Cole Street was also closed as it was flooded by 3 feet of water. In Smyrna, flooding occurred on Windy Hill Road and Reed Road, with a partial closure required on Windy Hill Road.

De Kalb County Decatur

21 0700EST 0 0 15K Flash Flood

The Atlanta Journal and Constitution reported that 3 to 4 inches of rain in a 2 to 3 hour period resulted in significant flooding. Forty-eight families had to be evacuated from an apartment complex on Memorial Drive in Decatur when water from Sugar Creek spilled over its banks and into the apartments. Flash flooding was also reported in Decatur. Road closures were required on Commerce Drive at Clairmont Road and College Avenue at Candler Road. On Electric Avenue, an unoccupied car was found with flood waters clear up to the roof. At Agnes Scott College in Decatur, East College Avenue was flooded as well.

Cobb County 2 NNW Macland

21 0739EST 0 0 100K Lightning

The Marietta Daily Journal reported that lightning started a fire in an empty house that had just been built and was for sale. The house was unoccupied at the time of the incident. A firefighter was injured in the process of extinguishing the fire.

Fulton County Atlanta

21 0805EST 0 0 Urban/Sml Stream Fld

The Atlanta Journal and Constitution reported street flooding in downtown Atlanta at the intersection of 14th Street and Northside Drive.

Baldwin County Countywide

21 2351EST 0 0 Urban/Sml Stream Fld

The Baldwin county 911 center reported high water on some roads around the county, but no road closures.

Forsyth County Cumming

22 0500EST 0 0 500K Lightning

The Forsyth County News reported that lightning struck and set on fire HLB Custom Cabinets at 2680 Friendship Road in Cumming. The building was completely destroyed.

Haralson County 1 SW Bremen

22 1018EST 0 0 Urban/Sml Stream Fld

The Haralson county 911 center reported that U.S. Highway 27 was under one foot of water just north of Interstate 20 between Waco and Bremen.

GAZ073>074-082

Baldwin - Washington - Bibb

22 1400EST 0 0 75.3K High Wind
2030EST

On September 22, around 7 am CDT, tropical storm Helene moved on shore near Fort Walton Beach, Florida. The storm tracked northeastward, weakening to a tropical depression as it neared Dothan, Alabama around 1 pm. By 4 pm, the remnants of tropical storm Helene were located just southeast of Columbus, Georgia. The storm began moving quickly northeastward, passing near Macon during the evening and moving out of Georgia near Augusta before midnight. Maximum sustained winds with this storm in Georgia were only 30 mph, with higher gusts. Hence wind damage was minimal. Emergency management directors and local newspapers reported some downed trees and power lines, particularly in Baldwin, Washington, and Bibb counties as the circulation center passed through the area during the late afternoon. Much of this was caused by the strong winds combined with saturated soils weakening the root systems of shallow rooted trees, particularly pines. In Bibb county, numerous trees and power lines were knocked down by the wind and a large metal awning on an old building in downtown Macon was blown down and destroyed. At Sandersville, in Washington county, a large tree limb was blown onto a car, busting out the windshield. There were also several reports of tree limbs down on power lines around Washington county, but no major problems.

Rainfall amounts of 2 to 3 inches were common along and near the path of the storm, with isolated reports over 5 inches. However, flooding was minimal because of a longstanding drought in the region. Some of the heavier rainfall amounts from Middle Georgia associated with the storm included 4.24 inches at Warrenton, 3.41 inches at Washington, 3.27 at Louisville, 3.03 at Lumpkin, 2.73 at Macon, and 2.40 at Butler. Columbus only reported 1.09 inches of rain. Rainfall amounts across north Georgia, including the Atlanta and Athens area, were generally in the 1 to 2 inch range. Streams, rivers, and lakes were easily able to absorb the moisture.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							

GEORGIA, North and Central

Muscogee County

7 SSE Columbus to
7 SE Columbus

22 2233EST 0 0 0.50K Lightning

The Muscogee county 911 center reported that lightning set a tree on fire in the extreme southern part of the county near Fort Benning.

Cherokee County

4 N Waleska

24 1856EST 0 0 Hail (1.00)

The public reported quarter size hail 4 miles north of Waleska, while pea size hail covered the ground about 1 mile north of Waleska.

Forsyth County

Cumming

24 2000EST 0 0 25K Lightning

The Forsyth County News reported that lightning struck a home on Sanders Road on the east side of Cumming setting the attic on fire. The fire was extinguished before the fire spread to other parts of the house.

Gwinnett County

Snellville

25 2000EST 0 0 275K Lightning

The Gwinnett Daily Post reported that lightning struck and set on fire an upscale two-story home on the Gwinnett County golf course in Snellville. The house was completely destroyed by the fire. The heat from the fire wilted sections of siding on two neighboring homes. The home was unoccupied at the time of the incident, so no injuries were reported.

GEORGIA, Northeast

GAZ010-017>018-026-
028>029

Rabun - Habersham - Stephens - Franklin - Hart - Elbert

01 0000EST 0 0 Drought
30 2359EST

Drought conditions were dampened some by the month's near normal rainfall. However, water supply and stream flow was still low due to the large long-term rainfall deficit that remained. Wells in the area continued to dry up. The corn crop suffered greatly, but other crops did not sustain any major catastrophe.

Habersham County

Tallulah Falls

21 0125EST 0 0 Thunderstorm Wind (G50)

Stephens County

Toccoa

21 0225EST 0 0 Thunderstorm Wind (G50)

An isolated severe thunderstorm produced damaging winds which blew down several trees.

GEORGIA, Southeast

GAZ088-099>101-
114>119-137>141

Screven - Candler - Bulloch - Effingham - Tattnall - Evans - Inland Bryan - Coastal Bryan - Inland Chatham - Coastal Chatham - Long - Inland Liberty - Coastal Liberty - Inland McIntosh - Coastal McIntosh

01 0000EST 0 0 Drought

Moderate drought conditions persisted throughout the month of September. Even as the remnants of Tropical Storm Gordon moved near the area and remnants of Helene moved across much of the area, rainfall was not enough to significantly affect drought conditions. Severe drought conditions had begun the month over several immediate coastal counties of southeast Georgia, but the small amounts of rain only improved drought conditions from severe to moderate.

Bryan County

Pembroke

04 0950EST 0 1 Lightning

Lightning struck the chief of police as he attempted to unplug several computers during a thunderstorm. The lightning strike blew the sockets off the walls, broke a water line, and damaged the station's phones, fax, and computers.

Jenkins County

6 E Perkins to
5 ENE Perkins

22 2150EST 1 100 0 0 Tornado (F0)

Several trees and numerous limbs down.

Screven County

6 WNW Hilltonia to
Millhaven

22 2155EST 0 0 Thunderstorm Wind (G50)
2200EST

Numerous Large limbs down.

Screven County

1 NE Hilltonia to
6 NE Millhaven

22 2210EST 0 0 Thunderstorm Wind (G50)
2215EST

Numerous large limbs down.

GEORGIA, Southwest

Brooks County

Countywide

06 0745EST 0 0 250K Flood
1500EST

Excessive runoff from heavy rains during the past 24 hours contributed to localized flooding with several county roads closed to high water. Railroad tracks were washed out. Ponds, creeks and streams were rising into residential areas. A spotter in Barney, GA reported nearly 8.5 inches of rain in a 24-hour period. Reported by the Brooks County Sheriff.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GEORGIA, Southwest

Thomas County Countywide

**06 0745EST
1500EST 0 0 100K Flood**

Up to six inches of rain in a 24-hour period caused localized flooding with several county roads closed to high water. Some residential areas reported minor flooding. A few large trees fell across roadways, causing isolated power outages and traffic delays. Reported by the Thomas County EMA.

Lowndes County Countywide

**06 0745EST
1200EST 0 0 200K Flood**

Excessive rainfall on the order of four to six inches in a 12-hour period contributed to localized flooding and closing numerous roads. Flood waters washed out several county roads. Water in homes was reported along Cat Creek. Jerry Jones Road in Valdosta was closed due to a small dam break. Reported by the Lowndes County EMA.

Grady County Countywide

**06 0745EST
1100EST 0 0 75K Flood**

Flood waters closed several county roads. Reported by the Grady County EMA.

Colquitt County Countywide

**06 0745EST
1200EST 0 0 75K Flood**

Flood waters closed several county roads. Reported by the Colquitt County EMA.

Berrien County Countywide

**06 0745EST
1200EST 0 0 75K Flood**

Flood waters closed several county roads. Reported by the Berrien County EMA.

Irwin County 5 W Ocilla to 4 NW Ocilla

**22 1400EST
1405EST 2 50 0 0 200K 8K Tornado (F1)**

An F1 tornado touched down severely damaging a home near U.S. Highway 319, then raced northeast across Highway 32 destroying a home on Tomberlin Lane between Ocilla and Mystic. The tornado damaged several peanut and cotton farms before dissipating. Numerous large trees were uprooted and power lines were toppled. Reported by the Irwin County EMA.

GEORGIA, West Central

NONE REPORTED.

HAWAII

Honolulu County Waianae to Nanakuli

**01 1231HST
1630HST 0 0 Wild/Forest Fire**

Five relatively small brush fires occurred along the Waianae coast on Oahu. All blazes were put out quickly by firefighters, and no homes or other properties were ever in danger.

HIZ004

North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna

**05 1500HST
1730HST 0 0 Flood**

Heavy showers in the South Hilo District on the Big Island caused minor flooding and ponding of roadways. No serious injuries or property damage were reported.

Maui County Hana to Kipahulu

**06 0530HST
0740HST 0 0 Urban/Sml Stream Fld**

Frequent showers produced minor flooding of streams and roadways in and around the Hana area. No serious injuries or property damage were reported.

HIZ007

West Hawaii Including Leeward Kohala And Kona

**08 1650HST
2120HST 0 0 Flood**

Heavy showers produced minor stream flooding and ponding of roadways on the Kona side of the Big Island, especially around Keahole Airport north of Kailua-Kona town.

HIZ007

West Hawaii Including Leeward Kohala And Kona

**09 1640HST
2240HST 0 0 400K Flood**

Heavy rain and showers caused minor stream flooding and ponding of roadways on the Kona side of the Big Island. This event also produced excessive soil runoff at the Hokulia real estate development project in Kealahou, with a cost to developers of up to \$400,000. Localized environmental damage was also assessed.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

HAWAII

HIZ001>007

Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - West Hawaii Including Leeward Kohala And Kona

27 1600HST

0

0

High Surf

28 1000HST

A slow-moving storm low far northwest of the state generated surf of 8 to 10 feet along the north and northwest facing shores of all the Hawaiian Islands.

Honolulu County

Mililani Town

29

1430HST

0

0

Funnel Cloud

1445HST

A funnel cloud was spotted by a member of the general public overhead of Mililani on Oahu. The funnel cloud apparently never became a tornado, and no injuries or property damage were reported.

Kauai County

Anahola to

Lihue

30

1600HST

0

0

Urban/Sml Stream Fld

1830HST

Heavy showers produced minor stream flooding and ponding of roadways in and near coastal areas of eastern parts of Kauai. There were no reports of injuries or property damage.

IDAHO, Extreme Southeast

NONE REPORTED.

IDAHO, North

NONE REPORTED.

IDAHO, Northwest

NONE REPORTED.

IDAHO, Southeast

Butte County

Arco

01

1005MST

0

0

Hail (1.00)

1100MST

Hail covered the ground to a depth of 3 inches in spots.

Jefferson County

Montevieu

01

1125MST

0

0

Hail (1.00)

1145MST

Madison County

4 NW Moody

01

1155MST

0

0

Hail (1.00)

1210MST

Minidoka County

6 NW Paul to

9 NW Paul

01

1130MST

0

0

60K

Hail (1.75)

1150MST

Golf ball sized hail shredded hundreds of acres of beets and potatoes along a 3 mile path.

Bannock County

1 E Lava Hot Spgs

01

1203MST

0

0

Hail (1.00)

1225MST

Hail covered the ground.

Teton County

5 NW Driggs

01

1210MST

0

0

Funnel Cloud

Two funnel clouds spotted.

Clark County

4 S Dubois

01

1215MST

0

0

Hail (1.25)

1225MST

Jefferson County

Rigby

01

1337MST

0

0

Hail (0.75)

1347MST

Bonneville County

Ucon

01

1347MST

0

0

Hail (0.75)

1357MST

Butte County

5 S Arco

01

1515MST

0

0

Thunderstorm Wind (G53) ^M

Butte County

8 SE Arco

01

1530MST

2

10

0

0

Tornado (F0)

1535MST

This was a weak tornado that touched down in a remote area and caused no damage.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
IDAHO, Southeast									
Butte County 10 E Arco	01	1600MST			0	0		Funnel Cloud	
Butte County Howe	01	1610MST 1620MST			0	0		Hail (1.00)	
A moist monsoonal flow surged north across the Great Basin and into Southeast Idaho. Widespread convective activity ensued bringing the first real moisture to Idaho for the summer.									
Butte County 10 E Arco	16 19	1400MST 1900MST			0	0		Wild/Forest Fire	
Oneida County 5 S Holbrook	16 19	1400MST 1900MST			0	0		Wild/Forest Fire	
Dry lightning ignited several blazes in Eastern Idaho, 3 of which grew into large fires that persisted for several days. The Taylor and Ireland fires would account for over 14,000 acres burned of sagebrush, junipers and mixed conifers. While in the Arco desert, the INEEL fire would burn 8000 acres of sagebrush and grass. Costs for suppressing these fires have not been estimated, however, no structures or crops were lost or threatened. An additional expense still to be accounted for is the cost of rehabilitation. The BLM plans to re-seed 100,000 acres of burned sagebrush this winter. Burning has been so complete in areas of the Arco desert as to cause extreme erosion. Some burned desert areas have lost 86 tons of topsoil per acre; when losing 5 acres of topsoil is considered severe erosion. Dust storms across the desert have periodically closed state routes that traverse the area.									
Caribou County Chesterfield	17	1430MST 1700MST			0	0	150K	Lightning	
A lightning ignited fire destroyed a school at the Chesterfield historic town site. The 81 year old school , constructed of hand made brick and mortar, housed the historical records of the Chesterfield foundation. Fortunately, most of the hundreds of historical books, ledgers and museum displays were saved prior to the school becoming totally engulfed in flames. The school had educated children until 1941 and had remained a focal point for visitors interested in Chesterfield's LDS (Mormon) heritage.									
IDAHO, Southwest									
NONE REPORTED.									
ILLINOIS, Central									
Coles County Countywide	10	1300CST 1615CST			0	0	0	Flash Flood	
Thunderstorms trained across the county throughout the day, with the most significant rains falling during the early afternoon hours. Radar estimates and surface reports indicated that upwards of 4 inches of rain fell in portions of the county. The hardest hit areas were Charleston and Mattoon, where numerous roads and yards were reported under water for several hours. Illinois Route 16, between Gays and Mattoon, was reported underwater in at least two locations. Also, a mobile home park's entrance was blocked as a result of the flood waters. No injuries were reported as a result of the flooding and no damage estimates were available.									
Crawford County Robinson	10	1736CST 2000CST			0	1	1M	Flash Flood	
Thunderstorms persisted during the daylight hours across the county. Ground saturated from the rainfall all day, eventually caused storm drains in Robinson to overflow and create widespread flooding and damage in much of the town. A local observer reported over 4.5 inches of rain during the event. Widespread basement and street flooding was noted. The hardest hit business in the city was a local Chevrolet dealership that sustained extensive damage to over 40 vehicles as well as the buildings on the lot. Water was reported nearly three and a half feet deep in the showroom of the dealership. Damage was noted to much of the building and its contents. The basement of a local health spa was reported as flooded, with several thousand dollars in damage. A building at WTYE-WTAY radio was reported to have water in it, but the station never went off the air. One injury was related to the event. A 20-year old male driver was involved in an accident on Illinois Route 33, just north of the Larwence county line. Water washed mud across the road, causing him to lose control of his car. He was taken to a local hospital complaining of neck and back pain. No other injuries were reported.									
Knox County Henderson to 9 SE Abingdon	11	2040CST 2050CST			0	0	0	Thunderstorm Wind	
Trees and power lines were blown down across the area as a result of straight line winds.									
Schuyler County 6 E Littleton to 2 W Rushville	11	2043CST 2045CST			0	0	0	Thunderstorm Wind	
Trees were blown down in the area, including a 6 to 7 inch diameter tree down over Airport Road, near Rushville.									
Knox County 2.5 NE St Augustine to 3 E St Augustine	11	2045CST 2050CST	0.5	75	0	0	0	Tornado (F0)	

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property		Crops	Character of Storm
Killed	Injured										

ILLINOIS, Central

A small tornado touched down 2.5 miles northeast of St. Augustine. It moved through some corn fields, flattening them, before lifting 3 miles east of St. Augustine. No damage occurred to any structures, trees or power lines. No injuries were reported. Wind estimates were between 60 and 65 miles per hour, classifying it as an F-0 on the Fujita scale.

Fulton County
9 NE Astoria to
4 W Fairview

11 2050CST 0 0 0 Thunderstorm Wind
2100CST

Straight line winds blew down a few trees in the area, as well as bending over a stop sign pole 45 degrees.

Stark County
Wyoming
Cass County
Beardstown

11 2110CST 0 0 Thunderstorm Wind (G52)

11 2115CST 0 0 0 Thunderstorm Wind

A tree was blown down, as well as some tree limbs and power lines.

Peoria County
Elmwood

11 2115CST 0 0 0 Thunderstorm Wind

A corn field was damaged in the area as a result of straight line winds.

Tazewell County
Pekin to
6 N Delavan

11 2146CST 0 0 Thunderstorm Wind (G52) ^M
2200CST

Reports of 60 mile per hour or greater wind gusts were reported across the area. Numerous trees and power lines were reported down in Pekin. A construction trailer was blown over and traveled some 100 feet from its original location. A large construction sign at the Pekin Energy plant, made of steel and brick, was partially blown over. No injuries were reported and no damage estimates were available.

Woodford County
1 E Secor

11 2200CST 0 0 0 Thunderstorm Wind

Several large trees were blown down at a campground one mile east of Secor.

Logan County
San Jose to
4 SE Lincoln

11 2220CST 0 0 0 Thunderstorm Wind
2225CST

A 12 inch diameter tree was blown down onto power lines in Lincoln. Four miles southeast of Lincoln, an 18 inch diameter tree was blown down onto a house. Several tree limbs were blown down onto power lines in San Jose. No damage estimates were available and no injuries were reported.

Fulton County
Marietta to
Canton

14 0355CST 0 0 Thunderstorm Wind (G51)
0400CST

Half of a tree was blown down onto a car in Marietta. Also, a 3 foot diameter maple tree was snapped off and landed onto a car in Canton. No injuries resulted from this damage and no damage estimates were available.

Crawford County
Robinson

20 1300CST 0 0 0 Thunderstorm Wind

Trees, tree limbs and power lines were blown down in the city. A tree fell on top of a car in an alleyway. No damage estimates were given.

Stark County
Toulon

22 2240CST 0 0 0 Thunderstorm Wind

Two large trees were blown down in the city.

ILLINOIS, Northeast

Ogle County
Forreston

11 1303CST 0 0 Hail (1.00)

Lake County
Kildeer

11 1345CST 0 0 100K Lightning

Cook County
Berwyn

11 1400CST 0 0 Urban/Sml Stream Fld
1500CST

Cook County
Wilmette

11 1400CST 0 0 Urban/Sml Stream Fld
1500CST

Du Page County
Downers Grove

11 1406CST 0 0 Hail (0.75)

Ogle County
5 N Rochelle

11 1410CST 0 0 Hail (0.88)

Cook County
Schaumburg

11 1425CST 0 0 Hail (0.75)

Cook County
Markham

11 1456CST 0 0 Hail (0.88)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ILLINOIS, Northeast

Cook County

Tinley Park

11 1520CST

0 0

Hail (1.00)

A line of severe thunderstorms developed during the early afternoon, stretching from just west of Rockford southwestward to near Quincy, IL. These storms moved east-northeast at 40 to 45 MPH during the course of the afternoon, with several communities reporting heavy rains, dangerous lightning, strong winds and widespread hail. In the town of Wilmette the McKenzie Elementary School's entire first floor was flooded when 2.75 inches of rain fell in a very short time. School was canceled the next day due to cleanup. In Berwyn very heavy rains caused urban flooding throughout the community with all major intersections under water for nearly four hours. Lightning struck a newer home in Kildeer, causing considerable fire damage. The strong winds tore down many trees and power lines across northern Illinois during the afternoon, and by 5:00 PM the Winnebago County Authorities reported that nearly 35,000 ComEd customers were without power, with some not being restored until the following morning. During the course of the afternoon pea size hail and winds gusting to 40 to 50 MPH were reported throughout northern Illinois.

Winnebago County

Durand

11 1915CST

0 0

Thunderstorm Wind (G50)

Ogle County

Polo

11 1924CST

0 0

Thunderstorm Wind (G60)

Ogle County

5 N Rochelle

11 1940CST

0 0

Hail (0.75)

Ogle County

Byron

11 1945CST

0 0

Thunderstorm Wind (G60)

Ogle County

Oregon

11 1945CST

0 0

Thunderstorm Wind (G58)

Boone County

Belvidere

11 1954CST

0 0

Thunderstorm Wind (G60)

De Kalb County

Kirkland

11 2015CST

0 0

Thunderstorm Wind (G58)

Mchenry County

Marengo

11 2015CST

0 0

Thunderstorm Wind (G58)

Mchenry County

Algonquin

11 2027CST

0 0

Thunderstorm Wind (G60) ^M

Lake County

5 W Waukegan

11 2030CST

0 0

Thunderstorm Wind (G63) ^M

De Kalb County

De Kalb

11 2050CST

0 0

Hail (0.75)

Kendall County

Plano

11 2111CST

0 0

Hail (0.75)

La Salle County

Marseilles

11 2125CST

0 0

Thunderstorm Wind (G58) ^M

La Salle County

Seneca

11 2128CST

0 0

Thunderstorm Wind (G65) ^M

La Salle County

Tonica

11 2130CST

0 0

Thunderstorm Wind (G58)

Grundy County

Mazon

11 2135CST

0 0

50K

Thunderstorm Wind (G70)

Grundy County

Morris

11 2135CST

0 0

Thunderstorm Wind (G65) ^M

La Salle County

Rutland

11 2155CST

0 0

Hail (1.75)

Kankakee County

Countywide

11 2200CST
2215CST

0 0

Thunderstorm Wind (G50)

Will County

Braidwood

11 2200CST

0 0

Thunderstorm Wind (G50)

Will County

1 W Braidwood

11 2207CST

0 0

Funnel Cloud

Iroquois County

Chebanse

11 2217CST

0 0

Thunderstorm Wind (G70)

Livingston County

Pontiac

11 2230CST

0 0

Hail (0.75)

Earlier in the afternoon, a line of severe thunderstorms rolled across much of northern Illinois. These storms were well in advance of a strong cold front approaching from the central plains. By evening, this cold front had moved into eastern Iowa, and a second line of severe thunderstorms developed across the same area, with much of the same results. Very strong thunderstorm winds caused damage across a large portion of northern and north central Illinois during the evening. In Winnebago County tree limbs were downed, especially in the northern part of the county. In Belvidere, Boone County large trees were blown down damaging

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
ILLINOIS, Northeast									
automobiles and homes. In Ogle County a cooperative observer in Polo reported trees down and shingles ripped off a roof. Branches were blown down from Byron to Oregon as well. Trees were blown down in the northern part of DeKalb County at Kirkland, Genoa and Kingston. Gusty winds and tree damage was reported in parts of McHenry and Lake Counties. A semi-tractor trailer was blown over on Interstate 57 in Chebanse, and a funnel cloud was sighted along Interstate 55 near Braidwood and tree damage occurred in Braidwood. On the outskirts of Mazon a microburst destroyed a grain bin and tool shed, with a second grain bin severely damaged. Nearby fields of corn were flattend down in a southward direction, and a couple of telephone poles were snapped about five feet above the ground. The worst hail was reported in the community of Rutland, where several vehicles were damaged by golfball size hail. Elsewhere in LaSalle County large trees were blown down in Seneca and high winds were also reported in Marseilles and Tonica. Limbs were down at several locations in Kankakee County.									
Lake County Libertyville	22	1420CST			0	0	25K		Lightning
Several lightning strikes reported throughout the city, with only one fire reported.									
ILLINOIS, Northwest									
Stephenson County Lena	11	1030CST			0	0	30K		Lightning
Lightning struck a home and ignited a fire.									
Carroll County Mt Carroll	11	1245CST			0	0			Hail (0.75)
Carroll County Countywide	11	1250CST			0	0			Thunderstorm Wind (G52)
Several trees and limbs down throughout the county.									
Whiteside County Countywide	11	1250CST			0	0			Thunderstorm Wind (G52)
Several trees and limbs down throughout the county. An outflow boundary from morning thunderstorms over Wisconsin dropped south into Northern Illinois, triggering additional thunderstorms. The storms mainly brought heavy rain, although several of the storms managed to strengthen sufficiently to produce damaging winds and large hail. Carroll and Whiteside counties felt the brunt of the storms.									
Jo Daviess County Countywide	11	1830CST			0	0			Thunderstorm Wind (G52)
Numerous trees down.									
Carroll County Mt Carroll	11	1847CST 1854CST			0	0			Thunderstorm Wind (G55)
Tree down on Route 64 at Center Hill. Trees also down on North Clay Street and on Jackson Street.									
Carroll County Mt Carroll	11	1850CST			0	0			Thunderstorm Wind (G52)
Numerous trees down.									
Stephenson County Freeport	11	1920CST			0	0			Thunderstorm Wind (G52)
Small trees and branches down.									
Whiteside County Fulton	11	1935CST			0	0			Thunderstorm Wind (G55)
Numerous trees and limbs down.									
Whiteside County Morrison	11	1935CST			0	0	2K		Thunderstorm Wind
Trees down.									
Whiteside County Fulton	11	1955CST			0	0			Thunderstorm Wind (G52)
Large tree down.									
Carroll County Mt Carroll	11	2000CST			0	0	20K		Thunderstorm Wind
Corn auger blown onto power lines.									
Carroll County Mt Carroll	11	2000CST			0	0	5K		Thunderstorm Wind
Windows blown out of a building showroom.									
Rock Island County Rock Is	11	2005CST			0	0			Hail (0.88)
Henry County Geneseo	11	2010CST			0	0	2K		Thunderstorm Wind
Large tree down.									
Carroll County Mt Carroll	11	2013CST 2017CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

September 2000

		Time		Path		Number of		Estimated		September 2000	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Damage	Character of Storm	
ILLINOIS, Northwest											
Trees down on Route 64 east of Mount Carroll and along Carroll and Center Streets in Mount Carroll.											
Stephenson County											
Lena	11	2016CST			0	0					Thunderstorm Wind (G52)
Large tree down on Route 73 at Hershey Road.											
Henderson County											
Oquawka	11	2020CST			0	0					Thunderstorm Wind (G52)
Numerous trees down.											
Henry County											
Cambridge	11	2025CST			0	0					Thunderstorm Wind (G61) ^M
Bureau County											
Dover	11	2030CST			0	0					Thunderstorm Wind (G52)
Large branches and trees down.											
Bureau County											
Princeton	11	2030CST			0	0					Thunderstorm Wind (G52)
Trees down.											
Henry County											
Galva	11	2100CST			0	0					Hail (0.80)
Henry County											
Galva	11	2100CST			0	0					Thunderstorm Wind (G52)
Bureau County											
Bureau	11	2130CST			0	0					Thunderstorm Wind (G52) ^M
Large tree limbs down.											
Warren County											
Monmouth	11	2130CST			0	0		500K			Thunderstorm Wind
Damaging straight line winds estimated at near 60 mph toppled acres of corn and soybeans in and around Monmouth. Ingredients were present for a big outbreak of severe weather. A strong upper level disturbance was moving through the plains. Meanwhile, surface low pressure raced from Southwest Minnesota into Wisconsin by late afternoon, allowing a strong cold front to sweep into Central Iowa by late in the day. Ahead of the front, a strong southwest breeze and abundant sunshine pushed temperatures to record levels with readings generally in the mid and upper 90s. An old outflow boundary from earlier convection set up over Northeast Iowa and Northern Illinois. Thunderstorms redeveloped along the boundary by mid to late afternoon over Northeast Iowa and quickly became severe. The convection took on an east to west orientation, which resulted in training of cells leading to heavy rains in excess of 3 inches, and recurring reports of severe weather. Meanwhile, thunderstorms exploded late in the afternoon along the approaching cold front from near Des Moines, Iowa to St. Joseph, Missouri. Strong convective instability and strengthening vertical wind shear profiles resulted in the formation of an intense squall line. The squall line raced eastward producing numerous reports of large hail and damaging winds. Several areas lost power. The storms also did considerable damage to many of the areas corn and soybean crops. Damage was widespread but variable, with as much as 10 percent of the corn crop damaged in some areas. Several factors contributed to the damage. A big factor was the direction of the rows in relation to the wind. Other factors included the variety of corn, as some were not rooted as deeply, and stalk rot which makes corn stalks brittle and unstable. Stalk rot was brought on by a wet July and relatively dry August.											
Henderson County											
2 NE Lomax	22	2020CST			0	0					Hail (0.75)
Henderson County											
Stronghurst	22	2050CST			0	0					Urban/Sml Stream Fld
Heavy rain of nearly 2 inches in one hour flooded several streets in town.											
Warren County											
Countywide	22	2145CST			0	0		100K			Thunderstorm Wind
Straight line winds flattened several acres of corn throughout the county.											
Warren County											
Roseville	22	2156CST			0	0					Urban/Sml Stream Fld
Several city streets were flooded. Early in the afternoon, surface low pressure was located between Omaha, Nebraska and Ames, Iowa with a strong cold front draped south from the low pressure through Central Kansas. A strong warm layer of air aloft, or cap, prevented convective development until very late in the afternoon when the cap eroded with diurnal heating and low level moisture advection. A line of strong to severe thunderstorms erupted along the cold front from Northwest Missouri into Eastern Kansas. Other scattered strong to severe thunderstorms developed in Southern Iowa along a warm front, and propagated eastward into West Central Illinois during the evening. The initial storms along the warm front were marginally severe, due to the lack of solar insolation and very moist conditions which limited the formation of strong updrafts. There were several reports of pea sized hail and winds to 50 mph, with isolated reports of dime sized hail and damaging winds. The line of convection which formed out in Missouri and Kansas swept across Southeast Iowa and West Central Illinois during the mid evening. This convection was stronger and aided by lift from the approaching cold front. These storms produced very heavy rain and a few reports of large hail and damaging winds.											
ILLINOIS, South											
Pulaski County											
3 E Ullin	11	1520CST			0	0					Hail (1.75)

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>ILLINOIS, South</u>									
White County 3 W Carmi to 5 S Carmi	20	1438CST 1448CST			0	0	5K		Thunderstorm Wind (G52)
Trees were down about 5 miles south of Carmi on Route 1, and about 3 miles west of Carmi on Route 14.									
Gallatin County Shawneetown	20	1440CST			0	0	2K		Thunderstorm Wind (G50)
Trees were reported down near "Elizabethtown."									
Saline County Countywide	20	1450CST			0	0	2K		Thunderstorm Wind (G50)
Power lines were blown down across the county. A couple of trees were also down.									
Johnson County Cypress	20	1505CST			0	0	2K		Thunderstorm Wind (G50)
Trees were down on Route 37.									
White County 10 SE Carmi	20	1507CST			0	0	3K		Thunderstorm Wind (G50)
Trees were down on Route 141 west of the Wabash Bridge, blocking westbound traffic.									
Pope County Golconda	20	1530CST			0	0	15K		Thunderstorm Wind (G54)
Large trees were blown down in Golconda, and shingles were blown off roofs. At a marina on the Ohio River, a metal roof over a walkway was blown off, and slips were displaced.									
Hardin County Karbers Ridge	20	1556CST			0	0	3K		Thunderstorm Wind (G50)
Power lines were down.									
Alexander County 1 SW Tamms	22	1655CST			0	0			Hail (1.75)
Golf ball size hail fell.									
Pulaski County Ullin	22	1705CST			0	0			Hail (1.00)
Pulaski County Ullin	22	1705CST			0	0			Thunderstorm Wind (G65)
Johnson County Cypress to 3 N Buncombe	22	1732CST 1744CST			0	0	10K		Thunderstorm Wind (G53)
Trained spotters estimated wind gusts between 60 and 65 MPH. Trees were uprooted along Route 37 a few miles north of Buncombe, blocking the road. The high winds took portions of a roof off a house and caused an undetermined number of homes to lose power.									
<u>ILLINOIS, Southwest</u>									
Montgomery County 6 NW Nokomis	03	1450CST			0	0			Hail (1.75)
Storm spotters reported golfball size hail northwest of Nokomis.									
Adams County Quincy	11	2000CST			0	0			Thunderstorm Wind (G56)
The Sheriff office reported some trees and large tree limbs down in Quincy.									
Pike County Barry	11	2045CST			0	0			Thunderstorm Wind (G56)
The Sheriff's office reported power lines down in Barry.									
Brown County 4 S Mt Sterling	11	2049CST			0	0			Thunderstorm Wind (G56)
Brown County 2 N Timewell	11	2057CST			0	0			Thunderstorm Wind (G56)
Thunderstorm wind gusts downed trees along Route 107 south of Mt. Sterling and in the Timewell/Mound Station area.									
Greene County Roodhouse	11	2205CST			0	0			Thunderstorm Wind (G56)
Roodhouse Police reported trees and power lines down.									
Madison County Godfrey	11	2243CST			0	0			Thunderstorm Wind (G56)
Madison County Madison	11	2248CST			0	0			Thunderstorm Wind (G56)
The County Sheriff reported trees and power lines down in the Godfrey and Madison areas.									
<u>INDIANA, Central</u>									
Hancock County Greenfield	04	0112EST			0	0	300K		Lightning

Storm Data and Unusual Weather Phenomena

September 2000

								September 2000	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
INDIANA, Central									
Lawrence County									
Bedford	04	0419EST			0	0	80K		Lightning
Lightning strikes set four condominiums ablaze in Greenfield. The units were completely destroyed with damages estimated at 300K. Lightning also set a poll barn on fire in Bedford. A race car and another vehicle were gutted with damages estimated at 80K.									
Sullivan County									
1 E Sullivan	20	1502EST 1504EST			0	0			Thunderstorm Wind (G50)
Greene County									
5 E Jasonville	20	1522EST 1524EST			0	0			Thunderstorm Wind (G50)
Owen County									
4 E Southport	20	1523EST 1524EST			0	1	20K		Thunderstorm Wind (G60)
Monroe County									
Ellettsville	20	1525EST 1531EST			0	0	10K		Thunderstorm Wind (G50)
Morgan County									
2 E Paragon to Morgantown	20	1525EST 1545EST			0	0			Thunderstorm Wind (G50)
Madison County									
Anderson	20	1555EST 1557EST			0	0			Thunderstorm Wind (G50)
Johnson County									
Bargersville	20	1557EST 1600EST			0	0	20K		Thunderstorm Wind (G60)
Brown County									
Cornelius to 1 E Trevlac	20	1600EST 1602EST			0	0			Thunderstorm Wind (G50)
Marion County									
Castleton	20	1600EST 1602EST			0	0			Thunderstorm Wind (G56) ^M
Bartholomew County									
5 W Taylorsville	20	1608EST 1612EST			0	0			Hail (1.75)
Hancock County									
Mt Comfort	20	1608EST 1610EST			0	0			Thunderstorm Wind (G55)
Johnson County									
Edinburg	20	1610EST 1614EST			0	0			Hail (1.75)
Shelby County									
Shelbyville Muni Arp	20	1615EST 1617EST			0	0			Thunderstorm Wind (G50)
Delaware County									
Muncie	20	1620EST 1622EST			0	0			Thunderstorm Wind (G50)
Henry County									
Middletown to Mooreland	20	1630EST 1650EST			0	0			Thunderstorm Wind (G50)
Rush County									
Manilla	20	1635EST 1637EST			0	0			Thunderstorm Wind (G50)
Decatur County									
Greensburg	20	1700EST 1702EST			0	0			Thunderstorm Wind (G50)
A squall line moved across Central Indiana producing numerous reports of tree damage and a couple reports of golfball size hail. A man was injured as he was thrown from his truck near Southport. His home also received some minor damage. A press box at Ellettsville High School was also destroyed in the thunderstorm gusts. Otherwise the only other damage was very sporadic and limited to small barns.									
Madison County									
Anderson	20	1630EST			0	0	20K		Lightning
Lightning struck a home causing 20K worth of damage mainly to the basement.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
INDIANA, Central									
INZ061-067>068									
Greene - Knox - Daviess									
	26	0800EST			0	0			Flood
	29	0700EST							
4 to 5 inches of rain fell across much of Greene county on the 24th and 25th causing unusual September flooding along the southwest portion of the White River. The last time any portion of the White River was above flood stage in September was in 1989. Elliston crested at 18.4 feet (flood stage is 18 feet) on the 26th, Newberry 13.5 feet (flood stage is 13 feet) on the 26th and Edwardsport 16.3 feet (flood stage is 15 feet) on the 27th. The flooding only effected some county roads and agricultural bottomland and was minor.									
INDIANA, Northeast									
White County									
Reynolds	03	2145EST			0	0			Hail (0.88)
White County									
Reynolds	03	2145EST			0	0			Thunderstorm Wind (G51) ^M
Miami County									
2 W Peru	03	2250EST			0	0	0		Thunderstorm Wind
Tree blown down on Highway 24.									
Lagrange County									
Shipshewana	11	1455EST			0	0	0		Thunderstorm Wind
Trees down.									
Lagrange County									
2 E Brighton	11	1510EST			0	0	0		Thunderstorm Wind
Power lines downed.									
Lagrange County									
Lagrange	11	1515EST			0	0	0		Thunderstorm Wind
Trees down.									
Elkhart County									
Countywide	11	1530EST			0	0	0		Thunderstorm Wind
Numerous trees and power lines down.									
Steuben County									
Angola	11	1545EST			0	0	0		Thunderstorm Wind
Trees and power lines down.									
Steuben County									
Countywide	11	1600EST			0	0	0		Thunderstorm Wind
Numerous trees and power lines down across the county.									
Kosciusko County									
Syracuse	11	1602EST			0	0	0		Thunderstorm Wind
Large limbs blown down.									
Noble County									
Countywide	11	1605EST			0	0	0		Thunderstorm Wind
Numerous trees and power lines down.									
Kosciusko County									
Milford	11	1620EST			0	0			Hail (0.75)
Marshall County									
3 W Plymouth	11	1705EST			0	0	0		Thunderstorm Wind
Several trees down.									
Fulton County									
Countywide	11	1719EST			0	0	0		Thunderstorm Wind
200 miles of power lines were pulled down or damaged from fallen tree limbs across the county.									
Marshall County									
Countywide	11	1725EST			0	0	150K		Thunderstorm Wind
Numerous trees and power lines downed.									
Kosciusko County									
6 E Warsaw	11	1730EST			0	0	150K		Lightning
Lightning struck a barn causing a fire which gutted the barn and its contents.									
Kosciusko County									
1 S Warsaw	11	1735EST			0	0			Hail (0.75)
INZ009-016>017									
De Kalb - Kosciusko - Whitley									
	11	1800EST			0	0	400K		Flood
		2100EST							
Widespread street and basement flooding. Between 4 and 5 inches of rainfall was reported in town. Several people were rescued from stranded vehicles in flood waters.									
Wabash County									
Wabash	11	1810EST			0	0	0		Thunderstorm Wind
Numerous trees blown down.									

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							
<u>INDIANA, Northeast</u>									
Whitley County									
Columbia City	11	1810EST			0	0	0		Thunderstorm Wind (G51)
Whitley County									
Columbia City	11	1820EST			0	0	0		Thunderstorm Wind
Power pole snapped.									
Whitley County									
Columbia City	11	1820EST			0	0	0		Thunderstorm Wind
Tree limbs and power lines down across town.									
Huntington County									
Huntington	11	1830EST			0	0	0		Thunderstorm Wind
Trees down in town. One home suffered considerable damage to the roof and front porch when a large tree fell on it.									
Wabash County									
Countywide	11	1830EST			0	0	50K		Thunderstorm Wind
Numerous trees and power lines reported down.									
Allen County									
Ft Wayne	11	1850EST			0	0	0		Thunderstorm Wind
Large limbs down.									
Grant County									
Van Buren	20	1538EST			0	0	0		Thunderstorm Wind
Power lines downed.									
Adams County									
Linn Grove	20	1620EST			0	0	0		Thunderstorm Wind
Tree limbs and one tree blown down.									
<u>INDIANA, Northwest</u>									
Lake County									
Griffith	11	1550CST			0	0			Thunderstorm Wind (G58)
Porter County									
5 W Porter	11	1609CST			0	0			Hail (0.75)
Porter County									
5 W Porter	11	1609CST			0	0			Thunderstorm Wind (G60)
A line of severe thunderstorms, that developed in north central Illinois, moved into far northwest Indiana during the afternoon hours. As the thunderstorms moved across Lake County several reports of damaging winds and hail were reported. In the community of Griffith two downed trees closed State Highway 6 until crews could clean the area. In Portage, the strong winds downed trees and with hail small sheds were damaged.									
Newton County									
Kentland	11	2320CST			0	0			Hail (2.00)
Reported by County Sheriff.									
Jasper County									
Wheatfield	11	2345CST			0	0			Thunderstorm Wind (G50)
Trees were blown down.									
<u>INDIANA, South Central</u>									
Dubois County									
Huntingburg	20	1645EST			0	0			Thunderstorm Wind (G60)
Washington County									
Salem	20	1735EST			0	0			Thunderstorm Wind (G60)
Clark County									
Countywide	20	1755EST			0	0			Thunderstorm Wind (G60)
Scott County									
Austin	20	1800EST			0	0			Thunderstorm Wind (G60)
Harrison County									
Dogwood	20	1836EST			0	0			Thunderstorm Wind (G60)
Trees and power lines were downed over much of South Central Indiana due to thunderstorm winds.									
<u>INDIANA, Southeast</u>									
Fayette County									
Countywide	20	1540EST			0	0	5K		Thunderstorm Wind (G50)
1615EST									
Trees knocked down across the county.									
Wayne County									
Countywide	20	1545EST			0	0	5K		Thunderstorm Wind (G50)
1625EST									
Trees downed across the county.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
INDIANA, Southeast									
Franklin County Laurel	20	1605EST 1615EST			0	0	5K		Thunderstorm Wind (G50)
Trees were knocked down by thunderstorm winds.									
Union County Countywide	20	1605EST 1625EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down in several locations across the county.									
INDIANA, Southwest									
Posey County New Harmony to Wadesville	20	1500CST 1520CST			0	0	15K		Thunderstorm Wind (G52)
Numerous trees were blown down in New Harmony. Trees and power lines were down in Wadesville.									
Posey County 3 SW Mt Vernon	20	1530CST			0	0	3K		Thunderstorm Wind (G50)
Power lines and trees were down.									
Gibson County Hazleton	20	1530CST			0	0	10K		Thunderstorm Wind
A barn was blown over on Cunningham Road.									
IOWA, Central									
IAZ033-044>050-057>062-070>075-081>086-092>097									
Sac - Crawford - Carroll - Greene - Boone - Story - Marshall - Tama - Audubon - Guthrie - Dallas - Polk - Jasper - Poweshiek - Cass - Adair - Madison - Warren - Marion - Mahaska - Adams - Union - Clarke - Lucas - Monroe - Wapello - Taylor - Ringgold - Decatur - Wayne - Appanoose - Davis									
01	0000CST				0	0	161.0M		Drought
06	2359CST								
Drought conditions that began the previous month became acute during the first part of September, especially during the first three days of the month. Temperatures soared to between 95 and 105 over the south half of the state. Once again, high dew point temperatures did help relieve some of the stress on the row crops, but made it more difficult to cool livestock. Crops dried out quickly with numerous areas across the south half of the state reporting premature death in the corn, and pot abortion with the soybeans. Significantly cooler weather overspread the state after the 4th. Along with the cooler weather, came dew point temperatures in the 40s. by the 6th, significant damage had been done and for all intents and purposes the growing season had ended. Overall, estimates place losses around 20% of the corn and soybean crop across the south half of the state. Agricultural damage during the first several days of the month came to about \$160,000,000.									
Greene County 1 NW Scranton	01	0535CST			0	0	2K	10K	Hail (0.88)
A cold front moved southeast across Iowa during the previous night. The front became stationary over southeast Iowa by sunrise. A weak low pressure system, and associated upper level short wave, moved northeast along the front. A few thunderstorms erupted well in the cold air. most of the cells were short lived and produced little more than brief heavy rain as they passed. One storm produced nickel size hail just northwest of the town of Scranton in Greene County. Enough hail fell to cover the ground. After dumping the hail, the storm weakened quickly.									
Cerro Gordo County 7 N Clear Lake	10	1845CST			0	0	1K	5K	Hail (0.88)
Worth County 5 NW Manly	10	1950CST			0	0	3K	10K	Hail (1.00)
Worth County 4 N Manly	10	1955CST			0	0	1K	5K	Hail (0.88)
Worth County 5 NE Manly	10	2005CST			0	0	1K	5K	Hail (0.88)
Worth County 4 N Manly	10	2005CST			0	0	3K	10K	Hail (1.00)
Worth County 5 NE Manly	10	2010CST			0	0	1K	5K	Hail (0.88)
Winnebago County Lake Mills	10	2330CST			0	0	150K		Lightning
An unstable airmass was in place over Iowa with high temperatures reaching the mid 80s and 90s across the state combined with dew point temperatures in the 70s. A cold frontal system slipped southeast into the state during the late afternoon and evening hours of the 10th. A line of thunderstorms developed ahead of the front, however the push of the cold front stopped by around midnight. Thunderstorms dropped hail up to an inch in diameter over north central Iowa. The hail reportedly covered the ground northeast of Manly in Worth County. Thunderstorms continue in the area after the severe weather passed. One thunderstorm moved over Winnebago County around midnight. Lightning struck a house in Lake Mills. The house was set on fire and was listed as a total loss, both house and contents.									
Poweshiek County Montezuma	11	1610CST			0	0	5K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
IOWA, Central									
Tama County Chelsea	11	1725CST			0	0	3K	10K	Hail (1.00)
Tama County 10 SE Chelsea	11	1725CST			0	0	3K	10K	Hail (1.00)
Tama County 4 SE Chelsea	11	1735CST			0	0		5K	Hail (0.75)
Poweshiek County Brooklyn	11	1745CST			0	0	1K	5K	Hail (0.75)
Mahaska County Fremont	11	1810CST			0	0	3K	10K	Hail (1.00)
Very warm air surged north into Iowa with temperatures soaring into the upper 80s to near 100 during the afternoon. These temperatures were combined with dew point readings in the mid 70s in most areas. The airmass was capped and this limited thunderstorm development in spite of the approach of another cold front from the northwest. A few storms were able to break the cap over parts of central into southeast Iowa. The storms became severe quite quickly and produced hail of three quarters of an inch to an inch in diameter. Severe weather lasted only a couple of hours before weakening and moving out of the area.									
Palo Alto County Ayrshire	13	1927CST			0	0	10K	20K	Hail (1.75)
Palo Alto County 4 SE Ayrshire	13	1930CST	0.2	25	0	0		3K	Tornado (F0)
Brief touchdown									
Kossuth County 9 S Algona	13	1945CST			0	0	3K	10K	Hail (1.00)
Humboldt County Bode	13	1950CST			0	0	10K	5K	Thunderstorm Wind (G56)
Humboldt County 6 N Livermore	13	1950CST			0	0	2K	3K	Thunderstorm Wind (G52)
Wright County 5 N Holmes	13	2005CST			0	0	3K	5K	Thunderstorm Wind (G52)
Humboldt County Livermore	13	2012CST			0	0	3K	5K	Thunderstorm Wind (G52)
Wright County Goldfield	13	2020CST			0	0	3K	10K	Hail (1.00)
Webster County Duncombe	13	2030CST			0	0	50K	25K	Thunderstorm Wind (G65)
Wright County Eagle Grove	13	2030CST			0	0	25K	20K	Hail (1.50)
Hamilton County Webster City	13	2040CST			0	0	3K	5K	Thunderstorm Wind (G52)
Hamilton County 5 W Webster City	13	2045CST			0	0	3K	10K	Hail (1.00)
Webster County Duncombe	13	2045CST			0	0	3K	5K	Thunderstorm Wind (G52)
Hamilton County Webster City	13	2055CST			0	0	40K	25K	Hail (1.75)
Hamilton County Webster City	13	2058CST			0	0	10K	10K	Hail (1.00)
Hamilton County Kamrar	13	2105CST			0	0	3K	10K	Hail (1.00)
Hamilton County Kamrar	13	2108CST			0	0	30K	25K	Hail (1.75)
Hamilton County Kamrar	13	2110CST			0	0	3K	10K	Hail (1.00)
Hamilton County Ellsworth	13	2113CST			0	0	40K	25K	Hail (1.75)
Hamilton County 1 E Kamrar	13	2115CST 2145CST			0	0		5K	Hail (0.75)
Wright County Eagle Grove	13	2115CST			0	0	3K	10K	Hail (1.00)
Hamilton County 3 NE Ellsworth	13	2125CST			0	0	3K	10K	Hail (1.00)

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
IOWA, Central									
Hamilton County 2 E Ellsworth	13	2125CST			0	0	50K	100K	Hail (1.75)
Hardin County Radcliffe	13	2125CST			0	0	3K	10K	Hail (1.00)
Hardin County Radcliffe	13	2129CST			0	0	30K	30K	Hail (1.75)
Once again, very warm and humid air spread over Iowa with temperatures in the 80s to mid 90s during the afternoon of the 13th. The airmass was again very capped with 700 mb temperatures of 12 degrees C. or higher over most of the area. As a result, thunderstorms had a hard time developing. Once the thunderstorms did develop they became severe quite quickly. There was one tornado reported during the early part of the thunderstorm development. A brief touchdown occurred southeast of Ayrshire in Palo Alto County. No significant damage was reported with this tornado. The main severe weather feature with these storms was hail, though there were several reports of high winds as well. The big story was hail of an inch or more in diameter, with frequent reports of hail up to golf ball in size. Considerable crop damage was reported with soybeans being hard hit. Some reports indicate up to 50% of the soybean pots cracked open by the hail. Golf ball size hail war reported ankle deep east of Ellsworth in Hamilton County. Hail fell for a 30 minute period in Wright County at Eagle Grove. High winds also caused tree, power line, and crop damage. Trees were toppled in several locations by winds of 60 to 70 MPH. The winds also caused considerable lodging of the corn crop due in part to stalk rot brought about by the very dry weather. The down of Duncombe in Webster County was hard hit with considerable roof damage reported there.									
Calhoun County 3 NE Lytton	13	2350CST			0	0	2K	10K	Hail (1.00)
Calhoun County Manson	13	2351CST			0	0	2K	10K	Hail (0.88)
Cass County Atlantic	14	0030CST			0	0	1K		Thunderstorm Wind (G50)
Marshall County Marshalltown	14	0100CST			0	0	100K	75K	Thunderstorm Wind (G69)
Marion County Knoxville Arpt	14	0152CST			0	0	5K	10K	Thunderstorm Wind (G56) ^M
Marion County Knoxville	14	0155CST			0	0	75K	50K	Thunderstorm Wind (G61)
Marion County Pella	14	0200CST			0	0	10K	20K	Thunderstorm Wind (G56)
Marion County Pella	14	0202CST			0	0	10K	20K	Thunderstorm Wind (G56)
The cold front mentioned above continued to move southeast into the state. As the thunderstorms that produced the hail over the northern part of the state during the evening hours weakened and moved east, another round of thunderstorms developed over west central Iowa. The storms produced high winds and hail. They formed into a scattered to broken line with numerous beta bow elements along the line. Initially the storms produced hail of up to an inch in diameter over west central Iowa. The event transformed into a wind event fairly early on. High winds swept into the Marshalltown area of Marshall County. A 195 foot radio tower collapsed in the wind. Considerable damage was reported in the area. Another example of wind damage came from Marion County as 60 to 70 MPH winds toppled trees and power lines in the area. Once again, crop damage was significant due to the condition of the tinder dry crop with reports of lodging received.									
Decatur County 5 N Leon	22	1534CST			0	0	1K	5K	Hail (0.88)
Decatur County Garden Grove	22	1540CST			0	0	3K	10K	Hail (1.00)
Decatur County Garden Grove	22	1540CST			0	0	3K	5K	Thunderstorm Wind (G52)
Wayne County Millerton	22	1619CST			0	0	10K	10K	Hail (1.75)
Davis County 2 SW Floris	22	1750CST			0	0	1K	5K	Hail (0.88)
Davis County 8 N Bloomfield	22	1830CST			0	0	2K	10K	Hail (1.00)
Wapello County Agency	22	1838CST			0	0	10K	5K	Hail (1.25)

A strong warm front lifted north into Iowa during the afternoon hours of the 22nd. Riding on a 60 kt jet at 850 mb, moisture streamed north into Iowa during the afternoon. Following an unseasonably cool period, temperatures rose into the mid 70s to low 80s as dew point temperatures climbed to near 70 degrees F. Thunderstorms erupted during the mid and late afternoon hours. Within one half hour or so the storms became severe. Most of the storms produced gusty winds and hail. There were several reports of severe hail, though the storms were more pulse in nature. The largest hail report came from Wayne County, where golf ball size hail pelted the town of Millerton. Winds gusted to 60 MPH as the storms moved through Garden City, in Decatur County.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
					Killed	Injured	Property		
IOWA, East Central and Southeast									
Linn County									
Marion	10	0345CST			0	0			Hail (0.75)
Clinton County									
Goose Lake	11	0830CST			0	0		200K	Thunderstorm Wind (G65)
			Winds estimated at 75 mph flattened several acres of corn and soybeans.						
Dubuque County									
Rickardsville	11	1049CST			0	0			Hail (1.75)
Clinton County									
Delmar	11	1230CST			0	0			Thunderstorm Wind (G52)
			Several trees blown down.						
Clinton County									
Charlotte	11	1235CST			0	0	1K		Thunderstorm Wind
			Several trees down.						
			An outflow boundary from early morning thunderstorms over Wisconsin dropped south into Northeast Iowa, triggering additional thunderstorms by late morning. A few of the storms strengthened sufficiently to produce large hail and damaging winds.						
Dubuque County									
Dubuque	11	1525CST			0	0			Hail (1.00)
Dubuque County									
Rickardsville	11	1550CST			0	0			Hail (1.75)
Iowa County									
3 S Ladora	11	1605CST			0	0			Hail (1.00)
Benton County									
2 SE Newhall	11	1621CST			0	0			Hail (1.00)
Dubuque County									
Sherrill	11	1630CST			0	0			Hail (0.75)
Benton County									
Atkins	11	1635CST			0	0			Hail (0.75)
Benton County									
4 E Blairstown	11	1643CST			0	0			Hail (1.50)
Linn County									
Prairieburg	11	1648CST			0	0			Hail (1.50)
Jones County									
Countywide	11	1700CST 1800CST			0	0		300K	Thunderstorm Wind
			Widespread damage to corn fields.						
Iowa County									
Millersburg	11	1705CST			0	0			Hail (1.00)
Linn County									
Cedar Rapids	11	1715CST			0	0			Hail (1.00)
Iowa County									
North English	11	1730CST			0	0	20K		Thunderstorm Wind
			Large tree fell on a home.						
Washington County									
Countywide	11	1730CST 1900CST			0	0		1M	Thunderstorm Wind
			Widespread damage to corn fields.						
Dubuque County									
Dubuque	11	1740CST			0	0	6K		Thunderstorm Wind
Dubuque County									
Dubuque	11	1740CST			0	0			Thunderstorm Wind (G52)
			Numerous trees down near Eagle Point Park.						
Dubuque County									
Durango	11	1740CST			0	0	5K		Thunderstorm Wind
Dubuque County									
Peosta	11	1740CST			0	0			Hail (0.75)
Dubuque County									
Dubuque	11	1745CST			0	0			Hail (0.75)
Jones County									
Hale	11	1755CST			0	0	5K		Thunderstorm Wind
Jones County									
Oxford Jct	11	1755CST			0	0			Thunderstorm Wind (G58)
Jones County									
Oxford Mills	11	1755CST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
IOWA, East Central and Southeast									
Jones County Wyoming	11	1755CST			0	0	10K		Thunderstorm Wind
Tree landed on a garage.									
Jones County Wyoming	11	1755CST			0	0	2K		Thunderstorm Wind
Clinton County Countywide	11	1800CST 1845CST			0	0		5M	Thunderstorm Wind
Corn fields toppled by winds estimated at 60 mph. 20 to 25 percent of all county farms sustained damage.									
Scott County Countywide	11	1800CST 1845CST			0	0		300K	Thunderstorm Wind
Several acres of corn and soybeans were damaged throughout the county.									
Washington County Wellman	11	1805CST			0	0			Hail (1.75)
Clinton County Delmar	11	1815CST			0	0	3K		Thunderstorm Wind
Iowa County Williamsburg	11	1815CST			0	0			Hail (1.00)
Jackson County Countywide	11	1825CST			0	0			Thunderstorm Wind (G55)
Scattered trees and power lines down throughout the county.									
Dubuque County Epworth	11	1830CST			0	0	2K		Thunderstorm Wind
Jackson County Sabula	11	1830CST			0	0		200K	Thunderstorm Wind
Corn fields damaged.									
Cedar County Durant	11	1849CST			0	0			Hail (0.75)
Washington County Wellman	11	1850CST			0	0			Hail (0.88)
Scott County Davenport Arpt	11	1928CST			0	0			Thunderstorm Wind (G53) ^M
Scott County Bettendorf	11	1930CST			0	0	35K		Thunderstorm Wind
Large tree fell on a home and vehicle parked in the driveway on Sunset Circle.									
Scott County Davenport	11	1930CST			0	0			Thunderstorm Wind (G61)
Winds estimated at near 70 mph knocked over a 2000 pound statue of a bull at the Mississippi Valley Fairgrounds. The bull serves as the mascot for the fair.									
Scott County Davenport	11	1930CST			0	0			Thunderstorm Wind (G63) ^M
Scott County Davenport	11	1930CST			0	0			Thunderstorm Wind (G52)
Trees and power lines down at 13th Street and Brown Street.									
Scott County Bettendorf	11	1935CST 1940CST			0	0			Thunderstorm Wind (G69)
Winds were sustained at 60 mph for a period of 5 minutes, with gusts estimated at near 80 mph.									
Scott County Bettendorf	11	1950CST			0	0	5K		Thunderstorm Wind
Lee County Countywide	11	2015CST 2045CST			0	0		1M	Thunderstorm Wind
Many acres of corn flattened.									
Des Moines County Countywide	11	2020CST 2045CST			0	0		2M	Thunderstorm Wind
Many acres of corn flattened.									
Des Moines County Burlington	11	2030CST			0	0	5K		Thunderstorm Wind
Lee County Ft Madison	11	2030CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property Damage	Crops	Character of Storm
IOWA, East Central and Southeast									
Straight line winds knocked down several trees and power lines. Trees blocked roads and a few landed on vehicles.									
Scott County Davenport	11	2100CST			0	0			Urban/Sml Stream Fld
Duck Creek reached bankfull in the downtown area.									
Scott County Davenport	11	2101CST			0	0			Lightning
Lightning knocked television station KWQC off the air.									
Ingredients were present for a big outbreak of severe weather. A strong upper level disturbance was moving through the plains. Meanwhile, surface low pressure raced from Southwest Minnesota into Wisconsin by late afternoon, allowing a strong cold front to sweep into Central Iowa by late in the day. Ahead of the front, a strong southwest breeze and abundant sunshine pushed temperatures to record levels with readings generally in the mid and upper 90s. An old outflow boundary from earlier convection set up over Northeast Iowa and Northern Illinois. Thunderstorms redeveloped along the boundary by mid to late afternoon over Northeast Iowa and quickly became severe. The convection took on an east to west orientation, which resulted in training of cells leading to heavy rains in excess of 3 inches, and recurring reports of severe weather. Meanwhile, thunderstorms exploded late in the afternoon along the approaching cold front from near Des Moines, Iowa to St. Joseph, Missouri. Strong convective instability and strengthening vertical wind shear profiles resulted in the formation of an intense squall line. The squall line raced eastward producing numerous reports of large hail and damaging winds. By the time the squall line reached the Quad Cities, the old outflow boundary over Northeast Iowa and Northern Illinois had sagged south and extended from near Moline, Illinois to Lafayette, Indiana. A combination of the boundary and increasing westerly component to the mid level winds with the approaching disturbance, enhanced a segment of the squall line over portions of the Quad Cities, evolving into a bow echo. Winds estimated in excess of 70 mph at times battered much of the Iowa Quad Cities. The cities of Bettendorf, Pleasant Valley, Riverdale and Davenport were hit hardest with numerous trees and power lines knocked down. The Illinois Quad Cities avoided the brunt of the storm. 28,000 homes were without power in the Quad Cities, and many did not have power restored for days. Many other areas in Eastern Iowa lost power as well. The lack of power forced the cancellation of classes at Scott Community College. The storms also did considerable damage to many of the areas corn and soybean crops. Damage was widespread but variable, with as much as 10 percent of the corn crop damaged in some areas. Several factors contributed to the damage. A big factor was the direction of the rows in relation to the wind. Other factors included the variety of corn, as some were not rooted as deeply, and stalk rot which makes corn stalks brittle and unstable. Stalk rot was brought on by a wet July and relatively dry August.									
Buchanan County Jesup	14	0003CST			0	0			Hail (1.75)
Buchanan County Jesup	14	0005CST			0	0			Hail (0.75)
Hail lasted for five minutes.									
Buchanan County Independence	14	0010CST			0	0			Hail (1.75)
Scott County Davenport	14	0054CST			0	0			Hail (0.88)
Scott County Davenport	14	0055CST			0	0			Hail (0.75)
Scott County Davenport	14	0058CST			0	0			Hail (1.00)
Scott County Davenport	14	0100CST			0	0			Hail (1.75)
At the intersection of Division and Central.									
Scott County Davenport	14	0101CST			0	0			Hail (1.50)
At the intersection of Kimberly and Division.									
Muscatine County 1.5 SE Stockton	14	0200CST			0	0			Thunderstorm Wind (G61)
Straight line winds flattened two large steel towers that hold the high voltage power lines of Mid American Energy Company.									
Scott County Walcott	14	0210CST			0	0			Thunderstorm Wind (G61)
Six to nine inch tree limbs broken completely off several trees. Corn in surrounding fields blown partially over.									
Scott County Davenport Arpt	14	0213CST			0	0			Hail (0.75)
Scott County Eldridge	14	0240CST			0	0	50K		Hail (1.00)
Large hail dented siding, damaged roofs and punched holes in vinyl shutters on several homes. Hail also damaged several vehicles.									
Scott County Eldridge	14	0242CST			0	0	5K		Lightning
Lightning struck a home on Scott Park Road. The lightning ignited a fire which damaged the attic area of the home.									
A vigorous upper level disturbance, dropping through the Dakotas, triggered scattered strong to severe thunderstorms from near Sioux Falls, South Dakota through Northern Iowa to near Rochester, Minnesota during the late afternoon on the 13th. The storms									

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, East Central and Southeast

propagated east southeast during the evening. A small scale bow echo moved into the Waterloo and Marshalltown areas late in the evening on the 13th and weakened, as a gust front, marking the leading edge of cooler and stable air, surged out ahead of the small scale bow echo, choking off the inflow and weakening the storms. Additional strong to severe thunderstorms reignited early on the morning of the 14th, near the intersection of the outflow and surface cold front from Waterloo to Dubuque. The convection blossomed into a Mesoscale Convective System or MCS and tracked through Eastern Iowa producing very heavy rain, large hail and damaging winds. Lightning and strong winds from the storms knocked out power to some 4,400 homes in the Quad Cities.

Van Buren County

4 NW Douds

22 1823CST 0 0 Hail (0.75)

Van Buren County

3 S Birmingham

22 1831CST 0 0 Thunderstorm Wind (G53)

Three power lines were blown down.

Des Moines County

Burlington

22 2005CST 0 0 50K Hail (2.75)

Baseball sized hail damaged several homes on 42nd Street. The large hail punched holes in windows and siding and dented several vehicles. Mobile homes nearby also suffered damage from the hail.

Des Moines County

Burlington

22 2005CST 0 0 20K Thunderstorm Wind (G61)

Strong winds knocked down several large trees and tore off part of a roof of a residence on 42nd Street.

Des Moines County

Burlington

22 2006CST 0 0 Hail (1.75)

Des Moines County

Burlington

22 2013CST 0 0 Hail (0.75)

Early in the afternoon, surface low pressure was located between Omaha, Nebraska and Ames, Iowa with a strong cold front draped south from the low pressure through Central Kansas. A strong warm layer of air aloft, or cap, prevented convective development until very late in the afternoon when the cap eroded with diurnal heating and low level moisture advection. A line of strong to severe thunderstorms erupted along the cold front from Northwest Missouri into Eastern Kansas. Other scattered strong to severe thunderstorms developed in Southern Iowa along a warm front, and propagated eastward into West Central Illinois during the evening. The initial storms along the warm front were marginally severe, due to the lack of solar insolation and very moist conditions which limited the formation of strong updrafts. There were several reports of pea sized hail and winds to 50 mph, with isolated reports of dime sized hail and damaging winds. The line of convection which formed out in Missouri and Kansas swept across Southeast Iowa and West Central Illinois during the mid evening. This convection was stronger and aided by lift from the approaching cold front. These storms produced very heavy rain and several reports of large hail and damaging winds. Burlington was hit hardest with baseball sized hail and damaging winds.

IOWA, Northeast

Clayton County

2 S Guttenburg

03 0520CST 0 0 2.5K Thunderstorm Wind (G52)

Law enforcement officials reported large branches blown down as winds gusted to around 60 mph.

IOWA, Northwest

Clay County

Spencer

13 1854CST 0 0 Hail (0.75)

Clay County

Spencer

13 1857CST 0 0 Hail (1.75)

Large hail caused damage to vehicles. The amount of damage was not known.

Clay County

4 N Webb

13 1910CST 0 0 Hail (1.75)

Cherokee County

Cherokee

13 2255CST 0 0 Hail (0.75)

Buena Vista County

3 SE Linn Grove

13 2300CST 0 0 Hail (0.75)

IOWA, Southwest

NONE REPORTED.

KANSAS, East

KSZ008>012-020>024-
026-034>040-054>056-
058>059 Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson -
Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin -
Coffey - Anderson

01 0001CST 0 0 Excessive Heat

03 2359CST

The excessive heat of August continued into the first 3 days of September. Temperatures soared well above 100 degrees in many locations. Topeka recorded a high of 109 degrees on the 2nd, the highest temperature of the summer and the highest temperature in 16 years (110 degrees was recorded on August 29, 1984). Fortunately there were no deaths or injuries reported from the heat.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KANSAS, East									
Jefferson County 3 NE Williamstown	11	1717CST			0	0			Hail (1.75)
Douglas County Clinton	11	1730CST			0	0			Hail (0.75)
Douglas County Lawrence	11	1730CST			0	0			Hail (0.75)
Morris County Council Grove	11	1735CST			0	0			Hail (0.75)
Douglas County 10 SW Lawrence	11	1738CST			0	0			Hail (1.75)
Douglas County 10 SW Lawrence	11	1741CST			0	0			Hail (0.75)
Douglas County 1 S Clinton	11	1744CST			0	0			Hail (1.00)
Jefferson County 5 E Williamstown	11	1747CST			0	0			Hail (0.88)
Jefferson County 4 ENE Williamstown	11	1752CST			0	0			Hail (1.75)
Douglas County 1 W Lawrence	11	1755CST			0	0			Hail (1.00)
Douglas County 1 S Lawrence	11	1757CST			0	0			Hail (1.75)
Douglas County Eudora	11	1758CST			0	0			Hail (0.88)
Douglas County Lawrence	11	1758CST			0	0	2K		Lightning
Lightning struck a house and started a fire which did minor damage.									
Douglas County 1 E Lawrence	11	1759CST			0	0			Hail (1.00)
Lyon County 4 N Bushong	11	1800CST			0	0			Hail (0.75)
Franklin County 4 W Centropolis	11	1805CST			0	0			Hail (0.75)
Douglas County Eudora	11	1816CST			0	0			Hail (1.00)
Lyon County Admire	11	1835CST			0	0			Hail (0.75)
Douglas County Baldwin	11	1840CST			0	0			Hail (1.00)
Douglas County 1 N Baldwin	11	1845CST			0	0			Hail (1.75)
Franklin County 3 W Wellsville	11	1845CST			0	0			Hail (1.75)
Osage County 4 N Overbrook	11	1847CST			0	0			Thunderstorm Wind (G52)
Douglas County 10 S Clinton	11	1850CST			0	0			Hail (1.75)
Douglas County 10 S Clinton	11	1850CST			0	0	1K		Thunderstorm Wind (G55)
Strong winds took some shingles off of a roof.									
Douglas County 3 SSW Globe	11	1900CST			0	0	1K		Hail (1.75)
Golfball size hail punched holes through a screen and damaged the siding on a house.									
Douglas County 3 SSW Globe	11	1900CST			0	0	1K		Thunderstorm Wind (G55)
Strong winds damaged singles on a roof.									
Douglas County Baldwin	11	1905CST			0	0			Hail (1.75)
Douglas County Baldwin	11	1905CST			0	0			Thunderstorm Wind (G52)
Lyon County 3 NE Emporia	11	1905CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

September 2000

		Time	Path	Path	Number of		Estimated		September 2000
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>KANSAS, East</u>									
Franklin County 9 N Ottawa	11	1910CST			0	0			Hail (1.00)
Franklin County Ottawa	11	1912CST			0	0			Thunderstorm Wind (G55)
Franklin County Le Loup	11	1914CST			0	0			Hail (1.75)
Franklin County Le Loup	11	1914CST			0	0			Thunderstorm Wind (G52)
Lyon County 10 SW Emporia	11	1914CST			0	0			Hail (0.88)
Franklin County 3 W Wellsville	11	1915CST			0	0			Hail (0.75)
Douglas County 6 SE Baldwin	11	1919CST			0	0			Hail (1.75)
Douglas County 6 SE Baldwin	11	1919CST			0	0			Thunderstorm Wind (G61)
Franklin County Wellsville	11	1920CST			0	0			Hail (1.75)
Lyon County 3 E Emporia	11	1925CST			0	0			Hail (0.75)
Lyon County 3 E Emporia	11	1925CST			0	0			Thunderstorm Wind (G52)
Lyon County Neosho Rapids	11	1945CST			0	0			Hail (0.75)
Lyon County Neosho Rapids	11	1950CST			0	0			Hail (1.00)
Franklin County 5 SW Wellsville	11	2005CST			0	0	3K		Thunderstorm Wind (G70)
Strong winds lifted a barn off its foundation and did some damage to the structure.									
Coffey County Lebo	11	2015CST			0	0			Hail (0.75)
Coffey County 4 N Gridley	11	2020CST			0	0			Hail (1.75)
Anderson County 1 E Welda	11	2040CST			0	0			Hail (0.75)
Coffey County Burlington	11	2040CST			0	0			Hail (0.88)
Coffey County Burlington	11	2042CST			0	0			Hail (0.88)
Thunderstorms developed over east central Kansas late in the afternoon of the 11th and moved slowly southeast through the evening hours. The thunderstorms became severe and produced numerous reports of large hail and damaging winds.									
Dickinson County 3 E Holland	22	1525CST			0	0			Hail (0.88)
Dickinson County 3 NW Woodbine	22	1547CST			0	0			Hail (0.88)
Morris County Wilsey	22	1552CST			0	0			Hail (1.00)
Shawnee County 3 W Topeka	22	1558CST			0	0			Hail (0.75)
Shawnee County Silver Lake	22	1601CST			0	0			Hail (0.88)
Shawnee County 3 W Topeka	22	1610CST			0	0			Hail (1.75)
Shawnee County 4 W Topeka	22	1610CST			0	0			Hail (1.50)
Morris County Diamond Spgs	22	1625CST			0	0			Hail (0.88)
Morris County Diamond Spgs	22	1628CST			0	0			Hail (1.00)
Jefferson County Ozawkie	22	1638CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

September 2000

		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		September 2000
Location	Date				Killed	Injured	Property	Crops	Character of Storm
<u>KANSAS, East</u>									
Morris County									
Wilsey	22	1646CST			0	0			Hail (1.00)
Jefferson County									
2 N Perry	22	1648CST			0	0			Hail (0.88)
Morris County									
5 W Council Grove	22	1656CST			0	0			Hail (0.88)
Douglas County									
Lecompton	22	1705CST			0	0			Thunderstorm Wind (G52)
Morris County									
5 W Council Grove	22	1705CST			0	0			Hail (0.88)
Jefferson County									
2 E Mc Louth	22	1714CST			0	0			Thunderstorm Wind (G56)
Jefferson County									
1 S Perry	22	1755CST			0	0			Thunderstorm Wind (G61)
Douglas County									
7 WNW Lawrence	22	1808CST			0	0			Thunderstorm Wind (G61)
Lyon County									
Emporia	22	1850CST			0	0			Thunderstorm Wind (G52)
Lyon County									
2 NW Neosho Rapids	22	1855CST			0	0			Thunderstorm Wind (G52)
Lyon County									
2 NW Neosho Rapids	22	1855CST			0	0			Hail (0.88)
Franklin County									
4 N Ottawa	22	1925CST			0	0			Thunderstorm Wind (G52)
Nemaha County									
1 NW Corning	22	2120CST			0	0			Hail (1.50)

Thunderstorms developed over central Kansas the afternoon of the 22nd and spread to the east and northeast into northeast Kansas during the evening hours. Many storms became severe and produced numerous reports of large hail and strong damaging winds.

KANSAS, Extreme Southeast

KSZ073-097-101 Bourbon - Crawford - Cherokee

01	0000CST	0	0			Excessive Heat
04	0400CST					

A prolonged period of excessive heat continued from late August through the early part of September with record breaking temperatures. Afternoon high temperatures averaged between 100 and 105 degrees for the first three days of September. These temperatures were 15 to 20 degrees above normal.

KSZ073-097-101 Bourbon - Crawford - Cherokee

01	0001CST	0	0			Drought
15	2359CST					

Drought conditions continued from August through the second week of September before much needed rainfall began to relieve the drought during the middle part of the month. Very high temperatures also continued through the first week, providing additional drying of the sub-surface moisture. These conditions allowed for the continuation of short-term dryness, lower yields of soybeans, and above normal fire danger. Soybean yields were reduced from normally 26 to 31 bushels per acre, to 20 bushels per acre. No other significant losses were noted.

Bourbon County						
Fulton	11	2050CST	0	0	0	Thunderstorm Wind (G60)

Bourbon County						
11 NW Ft Scott	11	2130CST	0	0	6K	Thunderstorm Wind

Two homes in Devon, Kansas had their roofs blown off. In addition, numerous power lines and trees were blown down.

Bourbon County						
Hammond	11	2210CST	0	0	0	Thunderstorm Wind

Trees were blown down near Hammond.

Bourbon County						
Hiattville	11	2234CST	0	0		Hail (0.75)

Camden County						
Arma	11	2245CST	0	0	10K	Thunderstorm Wind

Power poles were blown down near Arma.

Crawford County						
Hepler	23	0300CST	0	0	0	Hail (0.75)

KANSAS, North Central

KSZ005>007-017>019 Phillips - Smith - Jewell - Rooks - Osborne - Mitchell

01	0000CST	0	0	0	60M	Drought
30	2359CST					

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Property	Estimated Damage Crops	Character of Storm
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KANSAS, North Central

As the 2000 growing season came to a close, north-central Kansas continued in the grip of a year-long drought. Beginning in the fall of 1999, the combination of the above normal temperatures and significantly lower than normal rainfall had produced lower crop yields, placed stress on livestock and literally "dried up" pastures. The short moisture profile last fall caused the germination of the spring wheat crop to be poor, and very little snowfall during the winter only compounded the problem. Increased moisture in the spring was offset by very dry conditions from late June through September and searing temperatures. Several communities recorded 20 days in August of temperatures over 100 degrees. Again this fall, farmers will find the soil moisture very limited and face the reality of another poor yield next year should significant rains not fall.

KANSAS, Northeast

KSZ025-057-060-102>105

Atchison - Miami - Linn - Doniphan - Leavenworth - Wyandotte - Johnson

01 0000CST 0 0 Excessive Heat
03 2359CST

The heat that gripped eastern Kansas in late August continued into September. Temperatures on the first 3 days of September were over 100 degrees at New Century Air Center, capping a string of 13 consecutive days of triple-digit heat. The hottest day was September 2, when temperatures climbed as high as 107 at New Century Air Center in Gardner. A cold front finally broke the extreme heat on September 4.

**Johnson County
Westwood**

04 0600CST 0 0 Thunderstorm Wind (G52)

A retired NWS employee reported downed tree limbs 6 to 8 inches in diameter.

**Leavenworth County
Leavenworth**

11 1755CST 0 0 Hail (1.75)
1758CST

Quarter to golfball size hail was reported in the city of Leavenworth.

**Johnson County
1 E De Soto**

11 1825CST 0 0 Hail (1.75)

**Johnson County
1 E De Soto**

11 1825CST 0 0 Thunderstorm Wind (G60)

Amateur radio operators reported 70 mph wind gusts.

**Wyandotte County
Kansas City**

11 1845CST 0 0 Thunderstorm Wind (G52)

Law enforcement officials reported wind gusts over 60 mph.

**Johnson County
Lenexa**

11 1915CST 0 0 325K Lightning

Lightning sparked a house fire which caused \$325,000 in damage to the house and its contents.

**Johnson County
Edgerton**

11 1920CST 0 0 Thunderstorm Wind (G52)

Emergency management officials reported 60 mph wind gusts along Interstate 35 near Edgerton.

**Johnson County
Edgerton**

11 1933CST 0 0 Hail (0.88)

**Miami County
2 W Hillsdale**

11 1940CST 0 0 Thunderstorm Wind (G52)

Law enforcement officials reported downed trees and power lines west of Hillsdale.

**Miami County
Paola**

11 1945CST 0 0 7K Lightning

Lightning downed half of a tree, which fell on a 1994 Honda, rendering the vehicle a total loss.

Thunderstorms developed rapidly along a strong cold front in eastern Kansas. Several reports of hail and wind damage were received.

**Miami County
1 E Bucyrus**

22 1945CST 0 0 5K Thunderstorm Wind (G57)

Trees were downed, and a shed was damaged.

**Johnson County
Spring Hill**

22 2020CST 0 0 Thunderstorm Wind (G57)

Thunderstorm winds downed trees and limbs 12 to 18 inches in diameter at the USD 230 Board of Education offices.

**Johnson County
Aubry**

22 2040CST 0 0 50K Thunderstorm Wind (G57)

A camper was blown over, and a home under construction sustained significant damage.

Thunderstorms developed along a cold front in northeastern Kansas on September 22. Several of the storms became severe, producing damaging winds in parts of east-central Kansas.

KANSAS, Northwest

KSZ001>004-013>016-027>029-041>042

Cheyenne - Rawlins - Decatur - Norton - Sherman - Thomas - Sheridan - Graham - Wallace - Logan - Gove - Greeley - Wichita

01 0000CST 0 0 Drought
30 0000CST

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>KANSAS, Northwest</u>									
Severe Drought Conditions continued across northwest Kansas during the month. Fall crop harvest started early due to the dry weather. In addition, most rivers and creeks remained dry.									
Rawlins County									
Atwood	08	1800CST			0	0			Thunderstorm Wind (G66)
Winds split trunk of large cottonwood tree at Lake Atwood.									
<u>KANSAS, Southeast</u>									
KSZ067									
Reno									
01	0001CST				0	0	1.9M		Drought
25	2359CST								
Prolonged drought inflicted minor damage to 25 farms totalling 20,000 acres. In addition, 60,000 head of cattle, 3,000 sheep, and 30,000 hogs were destroyed.									
Cowley County									
Arkansas City	03	2209CST			0	0			Thunderstorm Wind (G57) ^M
Reported by Cowley County Civil Defense, a 2-foot diameter tree was uprooted and branches 6-8 inches in diameter were blown down.									
Chase County									
Saffordville	11	1845CST			0	0			Hail (0.75)
Woodson County									
2 S Yates Center	11	2142CST			0	0			Hail (1.00)
Allen County									
6 W Humboldt	11	2201CST			0	0			Hail (0.75)
Wilson County									
New Albany	11	2218CST			0	0			Thunderstorm Wind (G52)
Montgomery County									
2 N Coffeyville	11	2252CST			0	0			Hail (0.75)
Mcperson County									
Windom	22	1540CST			0	0			Hail (0.75)
Rice County									
Little River	22	1541CST			0	0			Hail (0.75)
Mcperson County									
Windom	22	1543CST			0	0			Hail (1.00)
Mcperson County									
2 W Mc Pherson	22	1556CST			0	0			Hail (1.00)
Reno County									
3 N Plevna	22	1610CST			0	0			Thunderstorm Wind (G52)
Mcperson County									
3 N Mc Pherson	22	1611CST			0	0			Hail (0.75)
Mcperson County									
Canton	22	1615CST			0	0			Hail (1.00)
Reno County									
Abbyville	22	1642CST			0	0			Hail (1.75)
Reno County									
Abbyville	22	1652CST			0	0			Hail (1.00)
Marion County									
Peabody	22	1800CST			0	0			Hail (1.00)
Marion County									
Burns	22	1805CST			0	0	50K		Thunderstorm Wind (G52)
At one residence, a 24 by 24 foot shed was blown over, one car damaged when a tree fell onto it, and shingles were blown off the roof of the house. A second house that was unconstruction sustained significant damage when when all but the south wall of the second floor were blown down and debris from construction material was blown about the area. A 3rd residence sustained damage when a tree fell through an upstairs bedroom wall. Several trees and power lines were blown down around the town. Area newspapers contributed to this report.									
Marion County									
6 SW Peabody	22	1805CST			0	0			Thunderstorm Wind (G52)
Kingman County									
Cunningham	22	1830CST			0	0	100K		Thunderstorm Wind (G61)
A garage was blown down, the roof peeled from an office building resulting in the damaging of computers and other equipment inside, and tree damage was widespread.									
Kingman County									
St Leo	22	1830CST			0	0			Hail (0.88)
Kingman County									
St Leo	22	1838CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							
<u>KANSAS, Southeast</u>									
Butler County									
El Dorado	22	1845CST 1920CST			0	0	100K		Lightning
A tank battery was destroyed, an office building had it's alarm system disabled, and numerous power lines were struck resulting in widespread arcing.									
Butler County									
1 N Leon	22	1845CST			0	0			Thunderstorm Wind (G70)
Speeds ranged from 61-70kts.									
Butler County									
El Dorado	22	1847CST			0	0			Thunderstorm Wind (G52)
Butler County									
5 S El Dorado	22	1850CST			0	0			Thunderstorm Wind (G52)
Butler County									
3 S Potwin	22	1850CST			0	0			Hail (0.75)
Butler County									
7 NW El Dorado	22	1859CST			0	0			Thunderstorm Wind (G52)
Kingman County									
Nashville	22	1900CST			0	0			Hail (0.88)
Butler County									
El Dorado	22	1914CST			0	0			Hail (1.00)
Butler County									
El Dorado	22	1920CST			0	0			Hail (0.75)
Sedgwick County									
Wichita	22	1930CST			0	2			Lightning
At Cessna Aircraft, located on the southern perimeter of Mid-Continent Airport, two men were knocked unconscious when the aircraft they pushing out of a hangar was struck. Both men were apparently standing in water and holding onto the aircraft when the lightning strike occurred. Both were listed in good condition at Via Christi-St. Francis Medical Center. Area newspapers contributed to this report.									
Butler County									
Towanda	22	1931CST			0	0			Hail (0.88)
Butler County									
1 W Andover	22	1932CST			0	0			Thunderstorm Wind (G52)
Butler County									
Douglass	22	2005CST			0	0			Hail (0.75)
Butler County									
3 S Douglass	22	2026CST			0	0			Hail (1.00)
Occurred on Butler/Cowley county line.									
Butler County									
2 S Andover	22	2100CST			0	0			Thunderstorm Wind (G52)
Cowley County									
3 N Winfield	22	2105CST			0	0			Hail (0.88)
Cowley County									
2 N Winfield	22	2106CST			0	0			Hail (1.00)
Cowley County									
Winfield	22	2107CST			0	0			Hail (1.00)
Cowley County									
2 E Winfield	22	2115CST			0	0			Hail (1.75)
Cowley County									
Winfield	22	2120CST			0	0			Thunderstorm Wind (G52)
Cowley County									
Arkansas City	22	2140CST			0	0			Thunderstorm Wind (G52)
Cowley County									
7 E Arkansas City	22	2145CST			0	0			Hail (0.75)
Cowley County									
10 E Winfield	22	2150CST			0	0			Hail (1.00)
Cowley County									
5 E Arkansas City	22	2305CST			0	0			Hail (0.75)
Chautauqua County									
Sedan	22	2311CST			0	0			Hail (0.88)
Elk County									
Howard	23	0023CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>KANSAS, Southwest</u>									
Edwards County 8 SE Lewis	22	1501CST			0	0			Hail (1.00)
Stafford County Hudson	22	1515CST			0	0			Hail (0.75)
Edwards County 15 SE Lewis	22	1530CST			0	0			Hail (0.88)
Stafford County 1 SW Macksville	22	1535CST			0	0			Hail (0.88)
Edwards County 1 NE Trousdale	22	1536CST			0	0			Hail (1.00)
Edwards County Trousdale	22	1537CST			0	0			Hail (1.75)
		Hail covered the ground.							
Stafford County 7 SSE Dillwyn	22	1604CST			0	0			Hail (0.88)
		Hail covered the ground.							
Pratt County 1 E Byers	22	1623CST			0	0			Hail (1.75)
Pratt County 4 SW Byers	22	1625CST			0	0			Hail (0.75)
Kiowa County 5 NW Haviland	22	1637CST			0	0			Hail (0.75)
		Hail covered the ground.							
Pratt County 4 N Pratt	22	1638CST			0	0			Hail (0.75)
Pratt County 3 W Preston	22	1700CST			0	0			Hail (0.75)
Pratt County 1 N Pratt	22	1715CST			0	0			Hail (0.75)
Pratt County Pratt	22	1719CST			0	0			Hail (0.75)
Pratt County 3 E Cairo	22	1745CST			0	0			Hail (0.75)
Barber County 11 NNE Medicine Lodge	22	1845CST 1850CST			0	0			Hail (1.00)
		Lasted five minutes.							
KSZ030>031-043>046-061>066-074>081-084>090									
Trego - Ellis - Scott - Lane - Ness - Rush - Hamilton - Kearny - Finney - Hodgeman - Pawnee - Stafford - Stanton - Grant - Haskell - Gray - Ford - Edwards - Kiowa - Pratt - Morton - Stevens - Seward - Meade - Clark - Comanche - Barber									
	24	1200CST			0	0			Extreme Cold
	26	2359CST							
Less than one week after temperatures of around 100 degrees, an unseasonable and record setting cold airmass moved across the region. On the 24th, many stations recorded high temperatures in the 40s which set a record for minimum highs. Following on the morning of the 25 and 26th, record low minimums were record across many areas. Some records had been established for 125 years! Some lows include 21 at Kinsley; 26 at Syracuse; 27 and Ashland; 28 and Garden City, Jetmore and Montezuma; 29 at Cedar Bluff, Healy and Wilmore; 30 at Hays, Ness City, Scott City and the Medicine Lodge airport; and 31 at Elkhart, Greensburg, Dodge City, Richfield, Sublette, Ulysses and Hays.									
<u>KENTUCKY, Central</u>									
Oldham County Countywide	20	1805EST			0	0			Thunderstorm Wind (G60)
Henry County Countywide	20	1820EST			0	0			Thunderstorm Wind (G60)
Trimble County Countywide	20	1820EST			0	0			Thunderstorm Wind (G60)
Meade County Brandenburg	20	1825EST			0	0			Thunderstorm Wind (G100)
		Telephone poles were snapped by thunderstorm winds.							
Hardin County Vertrees	20	1845EST			0	0			Thunderstorm Wind (G60)
Bullitt County Brooks	20	1855EST			0	0			Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KENTUCKY, Central									
Jefferson County Countywide	20	1910EST			0	0			Thunderstorm Wind (G60)
Spencer County 2 N Waterford	20	1918EST			0	0			Thunderstorm Wind (G60)
Shelby County Shelbyville	20	1925EST			0	0			Thunderstorm Wind (G60)
Nelson County Bardstown	20	1935EST			0	0	10K		Thunderstorm Wind (G60)
A tree was blown on to a house in northern Bardstown.									
Larue County Hodgenville	20	1940EST			0	0			Thunderstorm Wind (G60)
Warren County Countywide	20	1945EST			0	0			Thunderstorm Wind (G60)
Washington County Countywide	20	1955EST			0	0			Thunderstorm Wind (G60)
Bourbon County Paris	20	2020EST			0	0			Thunderstorm Wind (G60)
Boyle County Countywide	20	2020EST 2040EST			0	0			Thunderstorm Wind (G60)
Nicholas County Countywide	20	2030EST 2050EST			0	0			Thunderstorm Wind (G60)
Mercer County Salvisa	20	2035EST			0	0			Thunderstorm Wind (G60)
Woodford County Versailles	20	2040EST			0	0			Thunderstorm Wind (G60)
Jessamine County Nicholasville	20	2045EST			0	0	3K		Thunderstorm Wind (G75)
Fayette County Lexington	20	2048EST			0	0			Thunderstorm Wind (G60)
Clark County Winchester	20	2050EST			0	0			Thunderstorm Wind (G60)
Garrard County Lancaster	20	2100EST			0	0			Thunderstorm Wind (G60)
Madison County Berea	20	2104EST			0	0			Thunderstorm Wind (G60)
Casey County Countywide	20	2120EST			0	0			Thunderstorm Wind (G60)
A line of thunderstorms developed over Indiana during the afternoon. Additional thunderstorms developed during the evening along outflow boundaries, and gained upper level support from a shortwave that moved from Illinois, through Indiana, into Ohio. Most of the damage from the severe thunderstorms was in the form of downed trees and power lines. A tree was blown on to a house in Bardstown in Nelson County, and there was some roof damage in Nicholasville in Jessamine County.									
KENTUCKY, Eastern									
Fleming County 3 SW Flemingsburg	20	2040EST			0	0	0	0	Thunderstorm Wind
Severe thunderstorm winds brought several trees down.									
Rowan County Cranston	20	2125EST			0	0	0	0	Thunderstorm Wind
Trees blown down by severe thunderstorm winds.									
Bath County Peasticks	20	2130EST			0	0	2K	0	Thunderstorm Wind
Strong winds brought trees down in the area. One tree fell on a vehicle producing damage.									
Estill County 2 W Irvine	20	2130EST			0	0	0	0	Thunderstorm Wind
Trees blown down onto Highway 1705 and 599.									
Rowan County Elliottville	20	2135EST			0	0	0	0	Thunderstorm Wind
Trees and branches blown down on Highway 32.									
Powell County Stanton	20	2140EST			0	0	0	0	Thunderstorm Wind
Trees were blown down by strong winds on Highway 213 and on Highway 615.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>KENTUCKY, Eastern</u>									
Rockcastle County Brodhead	20	2145EST			0	0	0	0	Thunderstorm Wind
Trees reported blown down on Route 618 near Highway 70.									
Menifee County 3 E Frenchburg	20	2145EST			0	0	0	0	Thunderstorm Wind
Severe thunderstorm winds blew trees down on Amos Ridge.									
<u>KENTUCKY, Northeast</u>									
KYZ103 Boyd	09	1300EST 1600EST			0	65			Excessive Heat
During a band festival at the Boyd County High School, 65 people were overcome by the heat and humidity of a late summer afternoon. The temperature was in the lower 80s, with the dew point in the 70 to 72 degree range. The sun was shining. Many of the affected band members had black uniforms and were wearing hats. Of the 65 treated individuals, 15 were taken to the hospital and later released.									
<u>KENTUCKY, Northern</u>									
Bracken County Brooksville	20	2000EST 2005EST			0	0	5K		Thunderstorm Wind (G50)
Trees downed across several roads.									
Lewis County Camp Dix	20	2100EST 2110EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down by thunderstorm winds.									
Mason County Countywide	20	2100EST 2115EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down across the county, especially across the eastern part.									
<u>KENTUCKY, Southwest</u>									
Henderson County Henderson	11	1030CST			0	0	8K		Thunderstorm Wind (G50)
Trees and power lines were blown down in Henderson. A tree fell across the southbound lanes of South Green Street, partially blocking traffic for an hour. A power pole was blown over in the same area.									
Fulton County 3 NW Fulton	11	1620CST 1624CST			0	0	8K		Thunderstorm Wind (G52)
A microburst caused damage in a very small area about 600 yards long and 100 yards wide. Tops were blown off trees, a barn roof was damaged, and shingles were blown off a house. Some cornstalks were flattened, and a trampoline was blown 600 yards.									
Mccracken County Paducah	12	0300CST			0	0	10K		Lightning
Lightning struck the Irvin Cobb Apartments, a downtown Paducah landmark formerly known as the Irvin Cobb Hotel. The chimney was struck by lightning, and fallen debris closed a block of South 6th Street. Debris fell through the roof of a ninth-floor apartment, creating a hole through which water leaked.									
Ballard County Countywide	20	1535CST 1545CST			0	0	3K		Thunderstorm Wind (G50)
Some trees were blown down at several locations in the county.									
Henderson County Zion to Smith Mills	20	1545CST			0	0	2K		Thunderstorm Wind (G50)
Large tree limbs were down in Zion and Smith Mills.									
Union County Uniontown	20	1556CST			0	0	10K		Thunderstorm Wind (G50)
Trees were down in the Uniontown area, blocking roads. A state trooper's car was struck by a falling tree, causing major damage to the vehicle.									
Crittenden County Sheridan	20	1602CST			0	0	3K		Thunderstorm Wind (G50)
Trees and power lines were down.									
Livingston County Countywide	20	1615CST 1625CST			0	0	4K		Thunderstorm Wind (G50)
Some trees and tree limbs were down across the county.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Marshall County Gilbertsville	20	1652CST			0	0	4K		Thunderstorm Wind (G50)
Three trees and some power lines were down.									
<u>LOUISIANA, Northeast</u>									
East Carroll Parish Lake Providence	22	1532CST 1545CST			0	0	10K		Thunderstorm Wind
The roofs were blown off of a few small storage buildings. Several trees and large limbs were blown down and knocked down some power lines. Two billboards were blown down.									
<u>LOUISIANA, Northwest</u>									
Lincoln Parish Ruston	01	1410CST			0	0			Lightning
Numerous small grass fires were sparked by lightning.									
Lincoln Parish Ruston	01	1415CST			0	0	145K		Thunderstorm Wind (G68)
Numerous trees and power lines were felled and several utility poles were snapped. A gymnasium roof was removed from an elementary school along with heaters and vents.									
Lincoln Parish Ruston	01	1440CST			0	0			Thunderstorm Wind (G52)
Several trees and power lines down.									
Winn Parish Dodson	01	1455CST			0	0			Thunderstorm Wind (G52)
Numerous trees down.									
Winn Parish Winnfield	01	1505CST			0	0	16K		Thunderstorm Wind (G52)
Several homes damaged from fallen trees.									
Jackson Parish Clay	01	1515CST			0	0			Thunderstorm Wind (G55)
Several large trees down.									
Union Parish Spearsville	01	1540CST			0	0			Thunderstorm Wind (G56)
Numerous trees and power lines down.									
Union Parish Bernice	01	1550CST			0	0	15K		Thunderstorm Wind (G72)
Numerous trees and power lines down. Shingles blown off numerous houses.									
Union Parish Bernice	01	1550CST			0	0			Hail (0.75)
Union Parish Bernice	01	1550CST			0	0	50K		Thunderstorm Wind (G70)
Large trees uprooted. One tree crushed a parked car. Structural damage to the roof of a house. Windows blown out of several homes.									
Union Parish Marion	01	1630CST			0	0	23K		Thunderstorm Wind (G55)
Numerous trees down and one home damaged from a fallen tree.									
Union Parish Downsville	01	1745CST			0	0			Thunderstorm Wind (G55)
Numerous trees down.									
Union Parish Farmerville	01	1745CST			0	0			Thunderstorm Wind (G55)
Several large trees down.									
Lincoln Parish Ruston	02	1537CST			0	0	250K		Thunderstorm Wind (G61) ^M
Numerous trees and power lines toppled leaving up to 8500 customers without power as long as 4 days while power structures were rebuilt. Numerous vehicles were damaged and several fires broke out. A warehouse was also destroyed.									
<u>LOUISIANA, Southeast</u>									
Terrebonne Parish Schriever	01	1905CST			0	0			Hail (0.75)
St. Tammany Parish Pearl River	01	1925CST			0	0			Hail (0.75)
Plaquemines Parish Phoenix	01	1935CST			0	0	1K		Thunderstorm Wind
A few trees were knocked down.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
LOUISIANA, Southeast									
Plaquemines Parish Belle Chasse	01	1935CST			0	0	2K		Thunderstorm Wind
	Several trees and power lines were blown down.								
St. Tammany Parish 2 SSE Slidell	01	1945CST			0	0			Hail (1.00)
	One inch diamater hail reported along Interstate 10 just north of the Twin Spans bridge.								
St. Tammany Parish Slidell	01	1959CST			0	0			Hail (0.75)
Orleans Parish New Orleans Lakefron	01	2000CST			0	0	1K		Thunderstorm Wind
	A few trees were blown down near Lakefront Airport.								
Orleans Parish New Orleans	01	2006CST			0	0	5K		Thunderstorm Wind
	Several trees were blown down and a few large signs along Interstate 10 were twisted off their supports near Irish Bayou in New Orleans East.								
Lafourche Parish Galliano	01	2100CST			0	0	1K		Thunderstorm Wind
	Several trees were blown down.								
Lafourche Parish Kraemer	02	1810CST			0	0	2K		Thunderstorm Wind
	Two trees were blown down on Highway 307 and three mobile homes sustained wind damage.								
Terrebonne Parish 3 S Dulac	05	1635CST			0	0	35K		Thunderstorm Wind
	Thunderstorm winds tore the roof off of a shrimp factory and blew it one half mile away, damaged two trailers, broke off seven utility poles, damaged a few homes, and knocked down several trees.								
Terrebonne Parish 1 W Waterproof	08	1245CST			0	0	2.5K		Thunderstorm Wind
	Thunderstorm winds knocked a trailer off of its foundation, blew down several patio covers, and lifted several small boats from Bayou Black.								
LOUISIANA, Southwest									
LAZ027>033-041>045-051>055	Vernon - Rapides - Avoyelles - Beauregard - Allen - Evangeline - St. Landry - Calcasieu - Jefferson Davis - Acadia - Lafayette - Upper St. Martin - Cameron - Vermilion - Iberia - St. Mary - Lower St. Martin								
	01	0000CST			0	0			Excessive Heat
	05	0000CST							
	Record heat from late August 2000 continued into early September. All-time record highs for the month of September occurred at Alexandria on the 3rd and 4th, with a temperature of 107, at Lafayette on the 2nd, with a temperature of 102, and at Lake Charles on the 4th, with a temperature of 105.								
Avoyelles Parish 6 W Marksville	01	1423CST			0	0	2K		Thunderstorm Wind
	Large branches downed across roadways west of Marksville.								
Allen Parish Kinder	01	1428CST			0	0	2K		Thunderstorm Wind
	Trees blown down on west side of Kinder, as reported by city police.								
Rapides Parish Echo	01	1446CST			0	0	20K		Thunderstorm Wind
	A roof was blown off a home, and many trees were blown down in Echo, Cheneyville, and Pineville in Rapides Parish.								
Jefferson Davis Parish Fenton	01	1448CST			0	0	2K		Thunderstorm Wind
	Trees and power lines downed in Fenton.								
Rapides Parish Cheneyville	01	1500CST			0	0			Hail (1.75)
Rapides Parish Woodworth	01	1516CST			0	0	2K		Thunderstorm Wind
	Two trees were blown down on Highway 165.								
Beauregard Parish 5 SW Ragley	01	1620CST			0	0	2K		Thunderstorm Wind
	Trees and power lines downed near Ragley.								
Calcasieu Parish 5 N Sulphur	01	1659CST			0	0	2K		Thunderstorm Wind
	Trees blown down on Houston River Road.								
Allen Parish Reeves	01	1750CST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
LOUISIANA, Southwest									
Trees blown down, according to sheriff office.									
MAINE, North									
NONE REPORTED.									
MAINE, South									
Lincoln County									
Waldoboro	20	0500EST			0	0	74K		Lightning
Lightning struck a house, starting a fire that caused major damage to the structure. The residents, who were home at the time, were able to evacuate the home safely.									
MARYLAND, Central									
Frederick County									
Countywide	01	0300EST 0500EST			0	0			Heavy Rain
Montgomery County									
Countywide	01	0300EST 0500EST			0	0			Heavy Rain
During the early morning hours of the 1st, isolated thunderstorms dropped heavy rainfall across eastern Frederick and western Montgomery Counties. A total of 2.10 inches was reported in Germantown and 1.87 inches fell in Damascus. Two separate observers in Frederick reported rainfall totals of 2.67 inches and 1.65 inches respectively.									
Anne Arundel County									
Countywide	02	1400EST 1700EST			0	0			Heavy Rain
Howard County									
Countywide	02	1400EST 1700EST			0	0			Heavy Rain
Prince George'S County									
Countywide	02	1400EST 1700EST			0	0			Heavy Rain
St. Mary'S County									
Countywide	02	1400EST 1700EST			0	0			Heavy Rain
Calvert County									
North Portion	02	1430EST 1700EST			0	0			Flash Flood
Several roads in the northern portion of the county were flooded.									
Calvert County									
Dunkirk	02	1600EST 1700EST			0	0			Lightning
Lightning damaged two homes and a fire station.									
Slow moving thunderstorms produced heavy rainfall and damaging lightning across portions of central Maryland during the afternoon of the 2nd. In Calvert County, law enforcement officials reported cars floating off Mt. Harmony Road after water rapidly rose. Route 4 and 260 in addition to roads in Dunkirk, Owings Mills, and North Beach were also inundated by water. A total of 1.25 inches of rain was reported in Dunkirk where lightning strikes damaged two homes and a fire station. In Anne Arundel County, a total of 3.75 inches fell at Jug Bay Wetlands near the Calvert County border and 1.84 inches fell at Baltimore-Washington International Airport. In Howard County, 1.99 inches was reported in Laurel. In Prince George's County, 2.89 inches was recorded just northeast of Rosaryville in Patuxent River Park and 2.00 inches fell in College Park.									
Montgomery County									
Countywide	03	1200EST 1600EST			0	1			Heavy Rain
Saturated soil allowed a tree to fall onto a house and injure one resident.									
Anne Arundel County									
Countywide	03	1400EST 1600EST			0	0			Heavy Rain
Charles County									
North Portion	03	1400EST 1600EST			0	0			Heavy Rain
Howard County									
Countywide	03	1400EST 1600EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MARYLAND, Central									
Prince George'S County									
Countywide	03	1400EST 1600EST			0	0			Heavy Rain
Carroll County									
Countywide	03	1410EST 1600EST			0	0			Flash Flood
Flooding was reported in Mt. Airy. Thunderstorms with heavy rainfall moved across the region from midday through early evening on the 3rd. In Montgomery County, heavy downpours saturated soil and allowed a large tree to fall onto a house in Silver Spring. One man was seriously injured and was trapped in the home after the tree fell onto the structure. A woman and her children escaped without injury. A total of 2.41 inches of rain fell southeast of Damascus and 1.85 inches was reported in Columbia. In Anne Arundel County, 2.72 inches was recorded in Annapolis. In Carroll County, 2.7 inches fell in one hour in Mt. Airy. A local stream left its banks and ran down streets between homes in a subdivision just east of Main Street. In Howard County, 1.99 inches was reported in Laurel. In Prince George's County, rainfall amounts included 2.80 inches in Brandywine, 2.55 inches near Upper Marlboro, and 2.14 inches in Leeland. In Charles County, up to 3.16 inches was reported in Waldorf and 1.74 inches fell in La Plata.									
Prince George'S County									
Countywide	04	1500EST 1800EST			0	0			Heavy Rain
A thunderstorm produced heavy rainfall as it moved across Prince George's County during the early evening hours of the 4th. A total of 2.48 inches of rain was recorded at Brown Station and 2.25 inches fell in Glenn Dale.									
Allegany County									
West Portion	11	1610EST 1900EST			0	0	2M		Flash Flood
Numerous roads, creeks, and structures were flooded. A thunderstorm with torrential rainfall became stationary over the western portion of Allegany County during the evening of the 11th. Serious flash flooding developed in less than an hour. Nearly \$2 million in flood damage was reported. Hardest hit communities included Cumberland's north and west side, La Vale, communities along Goose Creek, the Haystack Mountain area, Westernport, and Barton. Across the county, three businesses and a residence were destroyed by flood waters. A total of 27 homes and businesses received major damaged and 141 other structures reported minor damage. The \$2 million figure does not include damage to vehicles, roads, and bridges. Power was knocked out in some locations for an extended period of time. In Cumberland, several streets were closed by high water and some became makeshift rivers which carried cars and sections of asphalt away. Several motorists had to be rescued from the rapidly rising waters. Water was seen running through the first floor of homes and businesses on the west side. The Cumberland Police Barracks reported a total of 4.80 inches of rainfall and and observer just outside of town recorded 2.97 inches. A landslide occurred just west of Cumberland on Route 220. Interstate 68 was closed for up to 3 hours through downtown after 3 feet of water rushed across the highway. Cars were floating on Fayette Street, Rose Hill Avenue, Greene Street, and Walnut Place. Several other roads including Braddock Road, Paca Street, Windsor Road, Holland Street, Beall Street, Bishop Walsh Road, Gephart Drive, Spruce Place, S. Lee Street, and Williams Street were flooded. In La Vale, 5 inches of rain was reported in only two hours. Creeks and streets were flooded and National Highway at C Street was impassable. An apartment building on George's Creek Boulevard reported major damage. In Barton, several roads were flooded. In Westernport, a major drainage ditch overflowed into the Franklin-Brophytown area.									
Anne Arundel County									
South Portion	14 15	2300EST 0500EST			0	0			Heavy Rain
Prince George'S County									
East Portion	14 15	2300EST 0500EST			0	0			Heavy Rain
St. Mary'S County									
Countywide	14 15	2300EST 0500EST			0	0			Heavy Rain
Calvert County									
Dunkirk	15	0108EST			0	0	110K		Lightning

A lightning fire heavily damaged a home.

Thunderstorms produced gusty winds and heavy downpours over portions of central Maryland during the early morning hours of the 15th. In Anne Arundel County, a total of 2.25 inches of rain fell at Jug Bay Wetlands. In Prince George's County, 2.00 inches was recorded in Patuxent River Park. In St. Mary's County, a total of 1.72 inches was reported in Hollywood. In Calvert County, lightning struck the roof of a home in Dunkirk. The resulting fire led to \$110,000 in damage to the roof and second story of the structure. In Carroll County, 1.50 inches fell in Millers. Across the region during a second round of storms in the afternoon, winds gusted to 49 MPH at Washington National Airport, 55 MPH at Montgomery College, and 42 MPH in Hagerstown.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MARYLAND, Central									
Baltimore City (C) Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Frederick County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Howard County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Montgomery County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Washington County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Carroll County Countywide	19	1200EST 1600EST			0	0			Flash Flood
A few roads were closed by high water.									
The remnants of Tropical Storm Gordon moved across central Maryland on the 19th and dropped up to 3 inches of rainfall. In Carroll County, 2.78 inches fell in Westminster, 2.48 inches was reported at Piney Run, and 2.38 inches fell in Manchester. A few roads across the county were closed by high water. In downtown Baltimore, 2.45 inches was recorded. In Howard County, 2.83 inches fell near Columbia, 2.08 inches fell in Laurel, 1.72 inches fell in Ellicott City, and 1.50 inches fell in Lisbon. In Montgomery County, 2.10 inches was estimated near Damascus and 2.05 inches was reported at Brighton Dam. In Frederick County, 2.16 inches was reported in Emmitsburg and 1.65 inches fell in Frederick. In Washington County, 2.11 inches fell in Sharpsburg and 1.72 inches was reported in Hagerstown.									
Allegany County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Anne Arundel County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Baltimore County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Baltimore City (C) Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Calvert County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Carroll County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Charles County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Frederick County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Frederick County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Harford County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Howard County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Montgomery County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MARYLAND, Central

Prince George's County

Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							

St. Mary'S County

Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							

Washington County

Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							

Showers and thunderstorms developed over Maryland as a moist tropical airmass covered the region. Between midday on the 24th through the evening on the 25th, between 1 and 3 inches of rain fell. In Harford County, 2.19 inches of rain was reported in Aberdeen and 1.75 inches fell at Conowingo Dam. In Baltimore County, rainfall totals included 2.80 inches at Ft. McHenry in Baltimore, 2.56 inches in Pikesville, 2.52 inches in Fullerton, 2.40 inches in Owings Mills, and 1.96 inches in Freeland. In Anne Arundel County, rainfall totals included 2.98 inches in Annapolis, 2.88 inches in Hillsmere, 2.82 inches in Lothian, 2.76 inches in Owings Beach, 2.73 inches in Pasadena, 2.50 inches in Rivera Beach, 2.14 inches at Baltimore-Washington International Airport, and 1.99 inches in Millersville. In northwest Calvert County, between 2.5 and 3.0 inches was recorded. In St. Mary's County, rainfall totals included 2.91 inches in Mechanicsville, 2.33 inches in Oraville, 2.10 inches in California, 2.02 inches in Hollywood, and 2.01 inches in Morganza. In Charles County, 2.78 inches was reported in Waldorf, 2.47 inches fell in Bryan's Road, and 2.39 inches fell in Port Tobacco.

In Prince George's County, rainfall totals included 3.59 inches at Leeland Road, 3.07 inches in Upper Marlboro, 2.96 inches in Oxon Hill, 2.85 inches at Andrews AFB, 2.68 inches in Bowie, 2.56 inches in Landover, and 2.40 inches in Beltsville. In Montgomery County, rainfall totals included 2.70 inches at the Potomac Water Treatment Plant, 2.57 inches in Forest Glenn, 2.46 inches in Olney, 2.42 inches in Damascus, 2.37 inches in Rockville, 2.14 inches in Gaithersburg, and 2.04 inches in Bethesda. In Howard County, 2.72 inches fell in Savage Park, 2.44 inches fell in Ellicott City, 2.30 inches fell in Laurel, and 2.28 inches was reported in Columbia. In Carroll County, 2.36 inches fell at Piney Run and 1.84 inches was recorded in Millers. In Frederick County, 1.66 inches fell in Frederick and 1.50 inches was reported in Thurmont. In Washington County, 1.87 inches fell in Sharpsburg and 1.53 inches was reported in Hagerstown. Around 1 AM EDT on the 26th, some early season snowflakes were mixed in with the rain on South Mountain. In Allegany County, 2.27 inches of rain fell in Frostburg and 2.26 inches was reported in Cumberland.

MARYLAND, Northeast

Cecil County

Crystal Beach to Calvert	19	1300EST			0	0		0	Heavy Rain
		1600EST							

Kent County

Countywide	19	1300EST			0	0		0	Heavy Rain
		1600EST							

Queen Anne'S County

Countywide	19	1300EST			0	0		0	Heavy Rain
		1600EST							

The remnants of what once was Hurricane Gordon dropped heavy rain across Queen Anne's County, western and eastern parts of Kent County and eastern Cecil County during the afternoon of the 19th. Doppler Radar storm total estimates were around 3 inches, most of which fell within a three hour period. The heavy rain caused poor drainage and low-lying area flooding, but no serious flooding or injuries were reported.

Caroline County

Countywide	25	1100EST			0	0		0	Heavy Rain
	26	0500EST							

Cecil County

Countywide	25	1100EST			0	0		0	Heavy Rain
	26	0500EST							

Kent County

Countywide	25	1100EST			0	0		0	Heavy Rain
	26	0500EST							

Queen Anne'S County

Countywide	25	1100EST			0	0		0	Heavy Rain
	26	0500EST							

Talbot County

Countywide	25	1100EST			0	0		0	Heavy Rain
	26	0500EST							

A slow moving low pressure system helped drop heavy rain across the Maryland Eastern Shore. Storm totals averaged between 2 and 3 inches. The heaviest rain fell during the afternoon and evening of the 25th. While the rain was heavy, hourly totals did not exceed 0.50 inches and this kept the major streams, creeks and rivers within their banks. Nevertheless there was considerable urban, low-lying area and poor drainage flooding. Storm totals included 3.20 inches in Federalsburg (Caroline County), 2.62 inches in Stevensville (Queen Anne's County), 2.49 inches in Crumpton (Queen Anne's County), 2.10 inches in Easton (Talbot County) and

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MARYLAND, Northeast

1.75 inches at the Conowingo Dam (Cecil County). The low pressure system responsible for the heavy rain, traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. By the evening of the 26th, the low was well offshore.

MDZ008-012-015-019>020
Cecil - Kent - Queen Annes - Talbot - Caroline

30 2359EST 0 0 Unseasonably Wet

September 2000 continued the trend of unseasonably wet weather for the Maryland Eastern Shore. On a county weighted average, September monthly rainfall totals were all above average and ranged from 4.9 inches in Cecil County to 6.7 inches in Caroline County. Normal monthly rainfall is around 3.7 inches.

MARYLAND, South

Wicomico County

Delmar

02 1745EST 0 0 0 0 Flash Flood
1800EST

Slow-moving thunderstorms dumped heavy rain over portions of the Maryland Eastern Shore and caused flooding of East Line Road near Route 13 just south of Delmar.

Worcester County

Ocean City

03 2015EST 0 0 0 0 Flash Flood
2100EST

Slow-moving thunderstorms dumped heavy rainfall of over two inches an hour in parts of Ocean City resulting in the closure of the Coastal Highway in the northern part of the city.

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

Barnstable County

Mashpee

15 0845EST 0 0 25K Thunderstorm Wind (G50)

An isolated severe thunderstorm downed a large tent, several small trees and large limbs in Mashpee.

MASSACHUSETTS, West

NONE REPORTED.

MICHIGAN, East

Oakland County

**White Lake to
Rochester Hills**

10 1400EST 0 0 750K Heavy Rain
1800EST

A tropical airmass was in place in southeast Michigan. Scattered thunderstorms developed in the afternoon, with several storms moving repeatedly over central and eastern Oakland County. The National Weather Service Office in White Lake measured 2.53 inches of rain; Pontiac received closer to 3 inches.

Most of the area could handle the rain, as it had been fairly dry in the area since late August. However, the heaviest rain fell at exactly the wrong time, in exactly the wrong place. At the Pontiac Silverdome, the Detroit Lions were hosting their home opener for the new NFL season, with a game time of 4 pm against the Washington Redskins. The deluge hit in the one to two hours before kickoff, just as over 80,000 attendees were making their way to the east side of Pontiac for the game.

The Silverdome rests in the valley of the Clinton River, and the area is known to be flood-prone. The city wastewater treatment plant sits almost next door to the Silverdome. A pump failure at the plant during the heavy rain contributed to standing water surrounding much of the Silverdome. Hundreds of fans had to abandon their vehicles and wade their way into the stadium. The tunnel entrance to the playing field also flooded. The large amount of flood damage in vehicles in and around the Silverdome prompted a Presidential Disaster Declaration.

Problems were more isolated in the rest of Oakland County. A small creek in Commerce Township, in a newly developed area, rose out of its banks. Roads, back yards, and a golf course were flooded. A drainage problem led to water two feet deep over some streets in a Lake Orion subdivision. Other communities impacted included Waterford, Farmington Hills, West Bloomfield, and Auburn Hills. The heavy rain would also set the stage for serious flooding the next day.

Genesee County

Flint

11 1525EST 0 1 12K Thunderstorm Wind (G50)

A tree was downed onto a car on Russell Avenue near Summit Street. A woman at scene suffered a cut to her arm, necessitating a trip to the hospital.

Oakland County

Milford

11 1630EST 0 0 10K Lightning

The 911 phone system at the Milford Police Department was zapped by lightning, causing substantial damage to electronic equipment.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, East

Lenawee County

Adrian

11 1710EST
2245EST
0 0 15K Flood

Low lying intersections in Adrian flooded rapidly. Water was high on many streets in the city, flooding and damaging several vehicles.

Wayne County

Belleville to

Wyandotte

11 1718EST
12 0420EST
0 0 20M Flood

Widespread, severe urban flooding resulted in a Presidential Disaster Declaration for Wayne County. The communities most severely affected included Allen Park, Dearborn, Dearborn Heights, Ecorse, Lincoln Park, Melvindale, Riverview, Southgate, Taylor, Van Buren Township, Wyandotte, and Wayne. Over 15,000 residences and other structures in Wayne County suffered at least some flood damage. Individual communities tallies included: 2700 homes in Allen Park, at least 500 in Lincoln Park, 2200 in Southgate, and 8000 in Wyandotte. In Allen Park, an estimated 40% of all streets flooded at some point during the event. Underpasses flooded in Dearborn and Dearborn, and street flooding was widespread, especially near Ecorse Creek. The Southfield Freeway were covered with two to three feet of water. In Detroit, the failure of a pumping system caused the Lodge Freeway to flood with two to three feet of water. The basement of city hall was damaged by flood waters in Lincoln Park, and street flooding was also widespread. In Riverview, street flooding was again widespread, with water approaching the doorsteps of some homes. A home in Riverview had its basement collapse. The Romulus area saws numerous roads flood, especially around Detroit Metropolitan Airport; numerous motorists had to be rescued from their stalled and stranded vehicles between 6 and 8 pm. Three feet of water covered Fort Street in Wyandotte. The Governor of Michigan estimated \$19 million in personal property damage in Wayne County, but said that estimate was "conservative".

Oakland County

Waterford to

Rochester Hills

11 1740EST
2245EST
0 0 10K Flood

Central and eastern Oakland County received an inch or so of rain on the 11th. With soils in the area soaked through from very heavy rain the day before, flooding developed quickly. The upper reaches of the Clinton River exceeded its banks in Waterford and Rochester. Street flooding worsened to the point where flood waters entered a business in Walled Lake.

Macomb County

Warren

11 1800EST
0 1 Lightning

Lightning struck the ground at an athletic field as kids were rushing to leave soccer practice. One boy close to the strike was thrown to the ground. He was not seriously hurt, though he stayed overnight at a local hospital for precautionary reasons.

Washtenaw County

Ann Arbor to

Ypsilanti

11 1810EST
2245EST
0 0 40K Flood

Water levels in Ford Lake, and its inflowing streams, resulted in erosion of the roadway along Ford Lake Dam. In addition, street flooding in the city of Ypsilanti was widespread. Ann Arbor had numerous stalled cars and flooded intersections, including a foot of water over Huron Street and Washtenaw Avenue. The heavy rain indirectly contributed to a fatality, when a female pedestrian was struck and killed by a University of Michigan bus during a blinding downpour.

A warm and muggy airmass persisted over southeast Michigan. A complex of thunderstorms moved east across northern Michigan in the early morning hours. Outflow from this thunderstorm complex moved south into southeast Michigan as a miniature cold front, and thunderstorms redeveloped along the leading edge of this outflow in the afternoon. Meanwhile, thunderstorms also developed in northeast Indiana, along the edge of a deck of low clouds. These separate areas of thunderstorms would merge over Metro Detroit in the late afternoon and early evening, producing tremendous amounts of rain. Many places had seen heavy rain the day before, and thus the area was quite vulnerable to flooding.

At Detroit Metro Airport, 3.71 inches of rain fell on the 11th. This was the wettest September day ever in Detroit, and the 5th wettest day of all time. This was on top of the 1.65 inches that fell the day before. National Weather Service radar estimated around 5 inches of rain fell on the 11th in a swath from Brownstown Township to Allen Park in Wayne County. In Washtenaw County, 2.26 inches of rain fell in Ann Arbor, after 1.32 inches the previous day.

The storms had a broad impact. Over 30,000 households were affected by power outages. About one hundred flights out of Detroit Metro Airport were cancelled, and numerous people were stranded at the airport overnight due to the multitude of flooded roads in the area. A collision on Interstate 94 in Harrison Township (Macomb County) during a downpour closed the highway for two hours. Sewage overflows were common in Wayne County, as the water treatment system was quickly overwhelmed; the failure of some pumping operations due to power outages contributed to the sewer backup. Several lawsuits were filed in connection with damage caused by raw sewage.

Lapeer County

5 W Metamora to

Almont

22 2100EST
23 0600EST
0 0 125K Flood

Gravel roads were washed out in Almont and Dryden Townships. Roads were also flooded to the west, in Deerfield and Metamora Townships. Some culverts were displaced where the gravel had washed out. Annrook Park in the city of Lapeer was flooded by the Flint River. Fields were flooded and driveways washed out in Imlay City.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, East

Oakland County

Holly	22	2100EST			0	0	20K		Heavy Rain
	23	0600EST							

Grange Hall and North Holly Roads in Holly were covered with standing water. A canal connecting Simonson and Bush Lakes flooded, covering Thomas Street with water a foot deep. On the north side of Holly, several feet of water covered some yards and entered barns.

Oakland County

Holly	22	2300EST			0	0	15K		Lightning
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Lightning struck a tree, which was downed onto a nearby van, destroying it.

Thunderstorms developed on the evening of the 22nd, north of a warm front that was moving north into southern Michigan. These storms produced very heavy rain in northern Oakland and southern Lapeer Counties. Holly measured 4.7 inches of rain, while Almont had 3.5 inches. Just to the south, the National Weather Service Office in White Lake had just 1.6 inches of rain. Runoff from the heavy rain resulted in localized flooding in northwest Oakland County, but flooding problems were more widespread and severe in southern Lapeer County.

MICHIGAN, Extreme Southwest

NONE REPORTED.

MICHIGAN, North

Antrim County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Benzie County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Charlevoix County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Grand Traverse County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Grand Traverse County

Traverse City	01	1700EST			0	0	20K		Lightning
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Lightning struck the garage of a residential home and set it on fire.

Grand Traverse County

Traverse City	01	1700EST			1	1			Lightning
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A father and son were struck by lightning. See narrative below. M400U

Grand Traverse County

Traverse City	01	1700EST			0	0			Thunderstorm Wind (G50)
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Kalkaska County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Leelanau County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Manistee County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Missaukee County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Wexford County

Countywide	01	1700EST			0	0			Lightning
		2330EST							

Grand Traverse County

Traverse City	01	1710EST			0	0			Hail (1.00)
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Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>MICHIGAN, North</u>									
Grand Traverse County									
Countywide	01	1730EST 2330EST			0	0			Flash Flood
Flooding up to 4 feet on some city streets. Numerous reports of flooded basements.									
Leelanau County									
Countywide	01	1910EST 2330EST			0	0	50K		Flash Flood
Flooding of roads and area basements.									
Benzie County									
Countywide	01	2045EST 2330EST			0	0			Flash Flood
Flooding of roads.									
Thunderstorms formed along a warm front that stretched across northern Lower Michigan. The first thunderstorms began in Leelanau County around 400 pm and intensified quickly over the next hour. One thunderstorm intensified west of Traverse City and quickly moved over the downtown area. As the storm moved east of the city, a 60 MPH wind gust was reported, followed by a report of one inch diameter hail. Meanwhile, more storms producing very heavy rainfall formed over Lake Michigan and continued to dump rain over Leelanau county, mainly to the south of Leland and Suttons Bay, as well as over the Traverse City metropolitan area. The rain lasted over these locations from 600 pm to 1130 pm. Another area of thunderstorms formed over northern Benzie county around 700 pm. These also moved into the Traverse City metropolitan area. As with the storms over Leelanau county, these storms persisted until 1130 pm, continually affecting the same areas. Over the 4 to 5 hour period of rainfall, much of Leelanau county reported rainfall amounts ranging from 4 to 8 inches, while amounts ranged from 2 to 6 inches in Benzie and Grand Traverse counties.									
These storms led to flooding across Leelanau county as well as the northern half of Benzie and Grand Traverse counties. Many secondary roadways across the central and western sections of Leelanau county were washed out. Sections of M-22 running near Suttons Bay received significant damage due to the force of the running water. Several businesses within the town of Glen Arbor were flooded. Many city streets around Traverse City became inundated with as much as 4 feet of standing water. Intense lightning also occurred with these storms. The lightning caused power outages to hundreds of homes and businesses in the Traverse City area.									
Lightning associated with these storms and many others that night was nearly continuous. One man was killed by the lightning when he and his 9 year old son climbed a small hill behind a shopping mall to view the approaching lightning. The 40 year old father was struck and killed by a lightning bolt. His son was thrown to the ground, but only sustained minor injuries. Emergency crews preformed CPR on the father immediately and a police officer arrived quickly with a defibrillator. However, attempts to revive the man failed.									
Lightning that Friday night also disrupted numerous high school football games. Many games were cancelled or postponed until the following Saturday morning. Many of the schools which began play had lengthy delays and many waited an hour or more before fans and players could return to the field. This was widely covered by area newspapers and television stations. The cost of postponed games is not known.									
<u>MICHIGAN, Upper</u>									
Iron County									
Iron River	11	1839EST			0	0			Hail (0.88)
Nickle sized hail reported.									
Iron County									
Crystal Falls	11	1845EST			0	0	3K		Thunderstorm Wind (G55)
Falling tree crushed pick-up truck.									
Dickinson County									
Quinnesec	11	1935EST			0	0			Thunderstorm Wind (G65)
Trees up-rooted and power lines down. Lightning was also a factor in power outages.									
Menominee County									
Stephenson	11	1945EST			0	0			Thunderstorm Wind (G55)
Several trees knocked down by wind.									
Delta County									
6 E Escanaba	11	1955EST			0	0			Thunderstorm Wind (G55)
Trees up-rooted.									
<u>MICHIGAN, West</u>									
Clare County									
Harrison	01	1900EST			0	0	20K		Thunderstorm Wind (G53)

An isolated severe thunderstorm produced wind gusts estimated near 60 m.p.h. that blew down several trees 2 miles west of Harrison, in Clare County, at 7 p.m. EST. Several trees were also blown down in Greenwood Township, also in Clare County. Several power outages were also reported just west of Harrison, and there were numerous reports of pea sized hail. The thunderstorm developed out ahead of a back door cold front that moved in from the north.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

Allegan County

Douglas to Glenn	03	0749EST 0815EST			0	0	15K		Thunderstorm Wind (G53)
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An isolated severe thunderstorm produced wind gusts that downed several power lines in Douglas at 7:49 a.m. EST. Law enforcement also reported that a tree was blown down 2 miles south of Glenn, also in Allegan County.

Kalamazoo County

Kalamazoo	11	1325EST 1344EST			0	0	50K		Thunderstorm Wind (G53)
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Van Buren County

Grand Jct	11	1338EST			0	0	25K		Thunderstorm Wind (G53)
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Mason County

Scottville	11	2236EST			0	0	25K		Thunderstorm Wind (G53)
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Severe thunderstorms developed during the mid afternoon hours and produced wind gusts that damaged a shed and carport in Kalamazoo (Kalamazoo County) at 1:25 p.m. EST. Law enforcement in Kalamazoo also reported that several tree limbs and power lines were downed. Severe thunderstorm wind gusts also downed several trees in Grand Junction (Van Buren County) at 1:38 p.m. EST, and several trees were also downed in north central Columbia Township, also in Van Buren County.

An isolated severe thunderstorm during the late evening hours also produced gusty winds that blew down several trees in Scottville (Mason County) at 10:36 p.m. EST. Around 305 people lost power in the Ludington area as a result of the thunderstorm, and approximately 190 customers were left without power in Scottville.

MINNESOTA, Central and South Central

Wright County

Delano	02	2055CST 2056CST			0	0			Hail (0.75)
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Hennepin County

Orono	02	2115CST 2117CST			0	0			Hail (1.00)
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Hennepin County

Long Lake	02	2125CST 2127CST			0	0			Hail (1.00)
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Hennepin County

St Bonifacius	02	2127CST 2129CST			0	0			Hail (1.00)
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Anoka County

1 S Fridley	02	2130CST 2132CST			0	0			Hail (1.00)
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Hail occurred in Columbia Heights.

Anoka County

Fridley	02	2132CST			0	0			Lightning
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Fires, power outages, gas meters blown off 4 homes.

Hennepin County

Minnetrista	02	2135CST 2137CST			0	0			Hail (1.00)
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Hennepin County

Crystal	02	2150CST 2152CST			0	0			Hail (1.00)
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Carver County

Chanhassen	02	2158CST 2200CST			0	0			Hail (1.75)
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Hennepin County

Eden Prairie	02	2158CST 2200CST			0	0			Hail (1.75)
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Hennepin County

Minneapolis	02	2158CST 2200CST			0	0			Hail (1.00)
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Scott County

Savage	02	2210CST			0	0			Hail (0.75)
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Anoka County

Fridley to Hilltop	02	2215CST 2330CST			0	0			Flash Flood
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Flooding of several basements and intersections in Fridley, Columbia Heights and Hilltop.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>MINNESOTA, Central and South Central</u>									
Hennepin County									
St Anthony to	02	2215CST			0	0			Flash Flood
Minneapolis	03	0030CST							
Numerous highways flooded, including Interstate 35W through South Minneapolis, the intersection of Highway 280 and I-35W in northeast Minneapolis, and the intersection of Highway 100 and Brooklyn Boulevard in Robbinsdale. Numerous basements flooded in southern portions of St. Anthony.									
Watonwan County									
Darfur	02	2225CST 2226CST			0	0			Hail (0.88)
Ramsey County									
Roseville to	02	2230CST			0	0			Flash Flood
St Paul	03	0030CST							
Numerous highways flooded, including the intersection of highway 36 and Interstate 35W in Roseville, and Interstate 94 and Mounds Boulevard in St. Paul. Several basements also flooded.									
Scott County									
Prior Lake	02	2253CST 2254CST			0	0			Hail (0.75)
Blue Earth County									
4 NE Amboy	02	2300CST 2301CST			0	0			Hail (0.75)
Blue Earth County									
Vernon Center	02	2310CST 2313CST			0	0			Hail (1.75)
<u>MINNESOTA, Northeast</u>									
Koochiching County									
Birchdale	09	1830CST			0	0			Hail (0.75)
Pine County									
Sandstone	09	2120CST 2125CST			0	0			Hail (0.75)
<u>MINNESOTA, Northwest</u>									
Clay County									
4 S Moorhead	02	1410CST			0	0			Hail (0.75)
Clay County									
2 N Glyndon	02	1425CST			0	0			Hail (0.75)
Clay County									
4 W Hawley	02	1555CST			0	0			Hail (1.00)
Becker County									
7 NNW Lake Park	02	1612CST			0	0			Hail (1.50)
Mahnomen County									
Waubun	02	1623CST			0	0			Hail (0.75)
Clay County									
Moorhead	02	1630CST			0	0			Flash Flood
Streets and underpasses were flooded and some vehicles were stranded.									
Becker County									
9 N Ponsford	02	1650CST			0	0			Hail (0.75)
Hubbard County									
Lake George	02	1723CST			0	0			Hail (0.75)
Hubbard County									
Kabekona Corner	02	1730CST			0	0			Hail (0.75)
Marshall County									
3 E Big Woods	05	1750CST			0	0			Hail (0.88)
Clay County									
Hawley	06	2320CST			0	0			Hail (1.00)
<u>MINNESOTA, Southeast</u>									
Wabasha County									
Wabasha	01	1200CST			0	0	1.5K		Hail (0.75)
Olmsted County									
Cummingsville	10	1925CST			0	0	15K	20K	Hail (1.50)
Olmsted County									
Cummingsville	10	1929CST			0	0	25K	35K	Hail (2.50)
Olmsted County									
2 N Chatfield	10	1939CST			0	0	1K		Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Southeast</u>									
Olmsted County 2 N Chatfield	10	1949CST			0	0	9K	12K	Hail (1.25)
Olmsted County 1 S Dover	10	1950CST			0	0	20K	25K	Hail (2.00)
Olmsted County 1 S Dover	10	1950CST			0	0	1.5K		Hail (0.75)
Olmsted County 1 S Dover	10	1952CST			0	0	8.5K	10K	Hail (1.00)
Olmsted County 1 N Dover	10	1954CST			0	0	22K	30K	Hail (2.50)
Winona County St Charles	10	1956CST			0	0		2.5K	Hail (0.75)
Winona County Troy	10	1956CST			0	0	4.5K	7.5K	Hail (1.00)
Winona County 1 N St Charles	10	1957CST			0	0	12K	15K	Hail (1.75)
Olmsted County Chatfield	10	2010CST			0	0	18K	20K	Hail (1.50)
Winona County Altura	10	2027CST			0	0	1K		Hail (0.75)
Winona County Utica	10	2035CST			0	0	10K	20K	Hail (1.75)
Winona County Lewiston	10	2036CST			0	0	7.5K	12.5K	Hail (1.00)
Winona County Lewiston	10	2038CST			0	0	10K	15K	Hail (1.25)
Winona County Lewiston	10	2044CST			0	0	15K	20K	Hail (2.00)
Winona County Winona Muni Arpt	10	2102CST			0	0	20K		Hail (1.00)
Spotters and law enforcement officials reported hail the size of ping-pong balls, golf balls and even tennis balls. This resulted in damage to numerous vehicles and hundreds of acres of corn and soybeans.									
Winona County Winona	11	1610CST			0	0	25K		Hail (1.75)
Emergency management reported golf ball size hail, which damaged several cars in downtown Winona.									
<u>MINNESOTA, Southwest</u>									
NONE REPORTED.									
<u>MINNESOTA, West</u>									
NONE REPORTED.									
<u>MINNESOTA, West Central</u>									
NONE REPORTED.									
<u>MISSISSIPPI, Central</u>									
Lauderdale County Russell	04	1825CST			0	0	1K		Thunderstorm Wind
At least two large pine trees were blown down.									
Forrest County 12 S Hattiesburg	05	1447CST			0	0			Hail (0.75)
Lamar County Oak Grove	05	1630CST			0	0	1K		Thunderstorm Wind
A few trees were blown down.									
Rankin County Star	12	1505CST			0	0	1K		Thunderstorm Wind
A few trees were blown down.									
Yazoo County Benton	20	1610CST			0	0	5K		Thunderstorm Wind
Numerous trees were blown down and caused minor damage including some downed power lines. Several trees were blocking roads.									
Washington County Metcalf	22	1655CST			0	0	3K		Thunderstorm Wind
A few trees or large limbs were blown down and knocked down several power lines.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>MISSISSIPPI, Central</u>									
Bolivar County 1 S Boyle	22	1725CST			0	0	5K		Thunderstorm Wind
The tin roof was blown off of a metal mechanic shop. At least one section of power lines was blown down.									
<u>MISSISSIPPI, North</u>									
NONE REPORTED.									
<u>MISSISSIPPI, South</u>									
Jackson County Vanceleave	01	1610CST			0	0			Thunderstorm Wind (G52)
A storm spotter reported a 60 mph wind gust.									
Hancock County 3 N Pearlington	01	1810CST			0	0			Hail (0.75)
Dime size hail was reported at Interstate 10 and Highway 607.									
Hancock County 3 N Pearlington	01	1811CST			0	0			Thunderstorm Wind (G52)
Harrison County Saucier	02	1716CST			0	0	5K		Thunderstorm Wind
Several trees and powerlines were blown down.									
Harrison County Lyman	02	1724CST			0	0			Thunderstorm Wind (G61)
Harrison County Orange Grove	02	1725CST	0.2	25	0	0	0.50K		Tornado (F0)
A weak torando briefly touched down near Canal Road knocking down several trees.									
Harrison County Gulfport	02	1929CST	0.2	25	0	0	30K		Tornado (F0)
A tornado caused damage in a two block area at Pass and Courthouse Roads. Windows were blown out in a shopping center and roof damage occurred to two businesses. Several cars in a parking lot were damaged, a sign was knocked down, and a tree fell on a moving car on Pass Road.									
Harrison County Biloxi	05	1430CST			0	0	5K		Thunderstorm Wind
Thunderstorm winds damaged the roof of a hotel.									
Jackson County Pascagoula	05	1430CST			0	0	2K		Thunderstorm Wind
Thunderstorm winds blew down traffic signals.									
Hancock County Diamondhead Arpt	05	1448CST			0	0	2K		Thunderstorm Wind
The tops of 16 trees were broken off.									
Pearl River County Picayune	05	1603CST 1623CST			0	0	1K		Thunderstorm Wind
Several trees were blown down.									
<u>MISSISSIPPI, Southeast</u>									
George County Lucedale	01	1530CST 1535CST			0	0	5K		Thunderstorm Wind (G55)
High thunderstorm winds resulted in minor roof and siding damage to homes and businesses in the community. Trees and power lines were also reported down in and around the community.									
Stone County Wiggins	05	1450CST 1455CST			0	0			Thunderstorm Wind (G55)
Thunderstorms produced strong straight-line winds which downed trees between Highway 26 and Highway 49, east and south of Wiggins.									
<u>MISSOURI, East</u>									
MOZ041-052-061-063>064									
Boone - Lincoln - St. Charles - St. Louis - St. Louis (C)									
	01 03	0000CST 2300CST			1	38			Excessive Heat
A late summer Heat Wave continued from the last week in August into early September. High temperatures were in the middle 90s with the Heat Index ranging from 105 to around 110 degrees. M66PH									
Iron County Annapolis	03	1650CST			0	0			Thunderstorm Wind (G55)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, East

Iron County

Arcadia **03** **1650CST** **0** **0** **Thunderstorm Wind (G55)**
Local law enforcement reported several trees down in Arcadia and Annapolis.

Boone County

Hallsville **11** **2003CST** **0** **0** **Thunderstorm Wind (G56)**

Boone County

Columbia **11** **2013CST** **0** **0** **Thunderstorm Wind (G52)**
The County Sheriff reported trees and power lines down in the Hallsville and Columbia areas.

Audrain County

Mexico **11** **2015CST** **0** **0** **Thunderstorm Wind (G56)**
The Sheriff 's office reported power lines down from thunderstorm wind gusts.

Pike County

Bowling Green **11** **2100CST** **0** **0** **Thunderstorm Wind (G56)**
The County Sheriff reported trees down in Bowling Green. At least one vehicle was damaged by a downed tree.

Montgomery County

Wellsville **11** **2114CST** **0** **0** **Thunderstorm Wind (G56)**
The County Sheriff reported trees and power lines down in the Wellsville area.

Callaway County

Millersburg **11** **2129CST** **0** **0** **Thunderstorm Wind (G56)**
The County Sheriff reported trees down along Route J.

St. Louis County

Chesterfield **11** **2222CST** **0** **0** **Thunderstorm Wind (G56)**

St. Louis County

Jennings **11** **2235CST** **0** **0** **Thunderstorm Wind (G56)**
Storm spotters reported trees and power lines down in west and north St. Louis County.

St. Louis County

Aftton **11** **2248CST** **0** **0** **Thunderstorm Wind (G56)**
Amateur radio spotters reported trees and power lines down in the Aftton area of south St. Louis County.

Jefferson County

Cedar Hill **11** **2248CST** **0** **0** **Thunderstorm Wind (G56)**

Jefferson County

House Spgs **11** **2258CST** **0** **0** **Thunderstorm Wind (G56)**

Jefferson County

Hillsboro **11** **2310CST** **0** **0** **Thunderstorm Wind (G56)**

Jefferson County

Imperial **11** **2310CST** **0** **0** **Thunderstorm Wind (G56)**

The County Sheriff reported trees and power lines down in several locations across northern Jefferson County. Several roads were blocked by downed trees.

MISSOURI, Lower

NONE REPORTED.

MISSOURI, Northeast

NONE REPORTED.

MISSOURI, Northwest

MOZ001>008-

011>017-020>025-

028>033-037>040-

043>046-053>054

Atchison - Nodaway - Worth - Gentry - Harrison - Mercer - Putnam - Schuyler - Holt - Andrew - De Kalb - Daviess - Grundy - Sullivan - Adair - Buchanan - Clinton - Caldwell - Livingston - Linn - Macon - Platte - Clay - Ray - Carroll - Chariton - Randolph - Jackson - Lafayette - Saline - Howard - Cass - Johnson - Pettis - Cooper - Bates - Henry

01 **0000CST** **3** **0** **Excessive Heat**
03 **2359CST**

The extreme heat that gripped northern Missouri in late August continued into September. Temperatures on the first 3 days of the month flirted with the century mark. The high of 106 at Kansas City International Airport on September 2 was a record for that date. Heat indices were above 100 on all three days, and heat-related illnesses claimed the lives of two men in Kansas City, and another in Chillicothe. A cold front finally broke the oppressive pattern on September 4. M52PH, M34VE, M55VE

Nodaway County

Barnard **11** **1540CST** **0** **0** **Hail (0.75)**

Andrew County

Savannah **11** **1601CST** **0** **0** **Hail (1.75)**

Andrew County

5 S Savannah **11** **1641CST** **0** **0** **Hail (2.75)**

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MISSOURI, Northwest									
Mercer County 8 NW Princeton	11	1641CST			0	0			Hail (1.75)
Daviess County Gallatin	11	1650CST			0	0			Hail (0.75)
De Kalb County Fairport	11	1659CST			0	0			Hail (0.75)
Clinton County Cameron	11	1705CST			0	0			Hail (0.75)
Buchanan County St Joseph	11	1707CST			0	0	10K		Hail (2.75)
The Highway Patrol reported golfball to baseball size hail on the north side of St Joseph. Several windshields were broken by the large hailstones.									
Caldwell County Hamilton	11	1712CST			0	0			Thunderstorm Wind (G60)
Mercer County 3 S Ravanna to 6 N Half Rock	11	1720CST 1730CST			0	0			Hail (1.75)
Dime to golfball size hail was reported in multiple locations between Ravanna and Half Rock.									
Grundy County 6 NE Trenton	11	1725CST			0	0			Thunderstorm Wind (G52)
Amateur radio operators reported downed trees near the intersection of Y and O Highways northeast of Trenton.									
Daviess County 5 E Jamesport	11	1730CST			0	0			Hail (0.75)
De Kalb County Clarksdale	11	1730CST			0	0			Hail (1.00)
Putnam County Lucerne	11	1738CST			0	0			Hail (0.88)
Livingston County Chillicothe	11	1740CST			0	0			Thunderstorm Wind (G60)
Numerous downed trees and power lines were reported in Chillicothe.									
Buchanan County Faucett	11	1755CST			0	0			Hail (1.00)
Platte County Camden Pt	11	1813CST			0	0			Hail (1.75)
Platte County Edgerton	11	1817CST			0	0			Hail (1.75)
Sullivan County Green City	11	1818CST			0	0			Thunderstorm Wind (G52)
Adair County Kirkville	11	1830CST			0	0			Thunderstorm Wind (G57)
A tree limb 18 inches in diameter was downed by thunderstorm winds.									
Carroll County Carrollton	11	1830CST			0	0			Thunderstorm Wind (G53) ^M
The Carrollton Fire Department recorded at 61 mph wind gust.									
Linn County 4 N Laclede	11	1830CST			0	0			Thunderstorm Wind (G52)
Numerous 4-inch diameter tree limbs and a dead tree were downed.									
Putnam County 4 S Martinstown	11	1830CST			0	0			Thunderstorm Wind (G52)
Tree limbs 6 to 8 inches in diameter were downed south of Martinstown.									
Clay County Kearney	11	1835CST			0	0			Hail (1.00)
Caldwell County 4 E Hamilton	11	1836CST			0	0			Thunderstorm Wind (G57)
The sheriff's department reported a large tree down.									
Clay County 3 N Excelsior Spgs	11	1845CST			0	0			Hail (0.88)
Nickel size hail was reported near the intersection of US 69 and SR 92.									
Jackson County Kansas City	11	1845CST			0	0			Thunderstorm Wind (G59) ^M
Wind gusts up to 68 mph were recorded at Children's Mercy Hospital.									
Ray County 6 N Knoxville	11	1845CST			0	0			Hail (0.88)

Storm Data and Unusual Weather Phenomena

September 2000

September 2000										
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
MISSOURI, Northwest										
Ray County Lawson	11	1845CST			0	0				Hail (0.75)
Schuyler County Downing	11	1845CST			0	0				Thunderstorm Wind (G57)
Trees and limbs up to 12 inches in diameter were downed.										
Ray County Richmond	11	1850CST			0	0	200K			Thunderstorm Wind (G65)
Thunderstorm winds tore off a 60-by-100 foot section of the roof at Richmond High School.										
Lafayette County Higginsville	11	1910CST			0	0				Thunderstorm Wind (G65) ^M
A 75 mph wind gust was recorded by the NWS co-op observer at the Higginsville Water Plant.										
Macon County Macon	11	1935CST			0	0				Thunderstorm Wind (G52)
The sheriff's department reported 60 mph wind gusts.										
Jackson County Lone Jack	11	2029CST			0	0				Thunderstorm Wind (G51) ^M
Cass County 1 E Strasburg	11	2030CST			0	0				Hail (0.75)
Cass County 1 E Strasburg	11	2030CST			0	0				Thunderstorm Wind (G52)
Johnson County Kingsville	11	2052CST			0	0				Hail (1.00)
Johnson County Pittsville	11	2052CST			0	0				Hail (1.75)
Johnson County 5 N Chilhowee	11	2105CST			0	0				Hail (1.75)
Henry County Clinton	11	2120CST			0	0				Thunderstorm Wind (G57)
Law enforcement officials reported downed trees and power lines in Clinton. Thunderstorms developed explosively along a strong cold front in northwest Missouri. These storms produced widespread large hail and wind damage.										
Sullivan County Green City	14	0339CST			0	0				Hail (0.75)
Linn County St Catharine	14	0425CST			0	0				Hail (1.00)
Clinton County Cameron	22	1634CST			0	0				Hail (0.75)
De Kalb County Stewartsville	22	1645CST			0	0				Hail (0.75)
Caldwell County Hamilton	22	1700CST			0	0	15K			Thunderstorm Wind (G52)
Law enforcement officials reported trees and power lines down, and minor damage to a building.										
Harrison County 5 N Bethany	22	1755CST			0	0				Hail (0.75)
Clay County Kearney	22	1805CST			0	0				Hail (0.75)
Clinton County Plattsburg	22	1910CST			0	0				Hail (1.00)
Cass County 1 E Strasburg	22	2050CST			0	0				Thunderstorm Wind (G52)
Law enforcement officials reported 60 mph wind gusts.										
Johnson County Holden	22	2105CST			0	0				Thunderstorm Wind (G60)
Law enforcement officials reported downed trees and power lines. Thunderstorms developed along a cold front in northwest Missouri on September 22. Several of the storms became severe, producing large hail. Evening storms were more notable for producing damaging winds in some locations.										
MISSOURI, Southeast										
Cape Girardeau County Cape Girardeau	20	1430CST			0	0	3K			Thunderstorm Wind (G50)
Power lines and tree limbs were down.										

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
MISSOURI, Southwest									
MOZ055>058- 066>071-077>083- 088>098-101>106	Benton - Morgan - Miller - Maries - Vernon - St. Clair - Hickory - Camden - Pulaski - Phelps - Barton - Cedar - Polk - Dallas - Laclede - Texas - Dent - Jasper - Dade - Greene - Webster - Wright - Newton - Lawrence - Christian - Douglas - Howell - Shannon - McDonald - Barry - Stone - Taney - Ozark - Oregon								
	01	0000CST			0	0			Excessive Heat
	04	0400CST							
A prolonged period of excessive heat continued from late August into early September for central, south central, and southwest Missouri. Afternoon temperature averaged around 100 degrees for the first three days of September. These temperatures are about 15 to 20 degrees above normal. Record high temperatures also continued to be broken in both Springfield and Joplin, Missouri. Area schools were dismissed from their classes early due to the excessive heat. County health departments reported treating approximately a dozen people with heat related problems during the first part of the month.									
MOZ055>058- 066>071-077>083- 088>098-101>106	Benton - Morgan - Miller - Maries - Vernon - St. Clair - Hickory - Camden - Pulaski - Phelps - Barton - Cedar - Polk - Dallas - Laclede - Texas - Dent - Jasper - Dade - Greene - Webster - Wright - Newton - Lawrence - Christian - Douglas - Howell - Shannon - McDonald - Barry - Stone - Taney - Ozark - Oregon								
	01	0001CST			0	0			Drought
	15	2359CST							
Drought conditions continued from August through the second week of September before much needed rainfall began to relieve the drought during the middle part of the month. Very high temperatures also continued through the first part of the week, providing additional drying of the sub-surface moisture. These conditions allowed for the continuation of short-term dryness, lower yields of soybeans, and above normal fire danger. Soybean yields were reduced from normally 26-31 bushels per acre, to 20 bushels per acre. West central and south central Missouri were especially hit hard during this period. No other significant losses were noted.									
Pulaski County Richland	01	1400CST			0	0	0		Thunderstorm Wind
Trees were blown down on Route 133 near Richland.									
Texas County 5 S Success	01	1450CST			0	0	0		Hail (0.75)
Trees were also blown down near Upton around 1455 CST.									
Howell County Willow Spgs	01	1457CST			0	0	0		Hail (0.75)
Texas County Licking	03	1535CST			0	0	0		Hail (0.75)
Texas County 3 E Houston	03	1555CST 1610CST			0	0	10K		Hail (1.75)
Trees were blown down near Houston, along with structure damage to homes.									
Texas County Cabool	03	1620CST			0	0	0		Thunderstorm Wind
Trees were blown down along Highway PP near Cabool.									
Howell County White Church	03	1635CST			0	0	5K		Thunderstorm Wind (G60)
Trees and power lines were blown down near White Church.									
Howell County Countywide	03	1635CST 1730CST			0	0	75K		Thunderstorm Wind
Widespread damage was reported from northern Howell county, southeast through the central and southeast part of the county. This included numerous trees blown down and roads blocked by trees throughout the county. Windows were blown out at a local supply company near West Plains, plus roof damage was also reported at a local gas station, and motel.									
Wright County Mountain Grove	03	1647CST			0	0	250K		Thunderstorm Wind
A microburst type system caused extensive damage in Mountain Grove. Numerous roofs were blown off or damaged around the city. Some of the most extensive damage was to a building supply company, a lumber yard, and a local high school. Additionally, a boat was blown up against a house.									
Douglas County Twin Bridges	03	1710CST			0	0	0		Hail (0.88)
Howell County West Plains	03	1720CST			0	0	0		Hail (1.00)
Morgan County 2 S Stover	11	2109CST			0	0	0		Hail (1.00)
Vernon County Schell City	11	2130CST			0	0	0		Hail (0.75)
Benton County 3 NW Warsaw	11	2130CST			0	0	0		Thunderstorm Wind
Numerous trees were blown down in Harry Truman State Park.									

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							
MISSOURI, Southwest									
St. Clair County									
Osceola	11	2205CST			0	0	0		Hail (0.75)
Cedar County									
El Dorado Spgs	11	2207CST			0	0	0		Hail (0.75)
Hickory County									
Wheatland	11	2209CST			0	0	10K		Thunderstorm Wind
Power poles were blown down near Wheatland.									
Camden County									
Hurricane Deck	11	2210CST			0	0	10K		Thunderstorm Wind
Power lines were down across northern Camden County.									
Hickory County									
Weaubleau	11	2225CST			0	0	0		Hail (0.75)
Polk County									
Half Way	11	2250CST			0	0	0		Hail (0.75)
Dallas County									
7 S Buffalo	11	2255CST			0	0	0		Thunderstorm Wind
Trees were blown down south of Buffalo.									
Dade County									
Greenfield	11	2255CST			0	0	0		Thunderstorm Wind
Trees were blown down near Greenfield.									
Polk County									
Countywide	11	2258CST 2330CST			0	0	19K		Thunderstorm Wind
Numerous trees were blown down countywide. House pillars were blown down, and a local school roof was blown off near Halfway.									
Laclede County									
Lebanon	11	2308CST			0	0	5K		Thunderstorm Wind
Trees and power lines were blown down near Lebanon.									
Greene County									
Sacville to Fair Grove	11	2310CST 2315CST			0	0	15K		Thunderstorm Wind
Numerous power lines were blown down from Sacville to Fair Grove.									
Barton County									
Liberal	11	2315CST			0	0	0		Hail (1.00)
Christian County									
Boaz to Ozark	11	2330CST 2340CST			0	0	0		Thunderstorm Wind
Numerous trees were blown down from near Boaz to Ozark.									
Christian County									
Ozark	11	2337CST			0	0	5K		Thunderstorm Wind
Power lines were blown down near Ozark.									
Shannon County									
Eminence	12	0030CST			0	0	0		Thunderstorm Wind
Trees were blown down near Eminence.									
Barton County									
Mindenmines	12	0100CST			0	0	0		Hail (0.75)
Douglas County									
Ava to 15 NE Ava	12	0100CST 0115CST			0	0	10K		Thunderstorm Wind (G70)
Numerous trees were blown down between Ava and 15 miles northeast of Ava, south of Norwood.									
MONTANA, Central									
Beaverhead County									
15 NW Wisdom	01 24	0000MST 1600MST			0	6	10K		Wild/Forest Fire
Mussigbrod Complex fire - only partly in Beaverhead County, 84939 acres burned, lightning caused, continued from August.									
Gallatin County									
25 N Belgrade	01 12	0000MST 1600MST			0	3	160K		Wild/Forest Fire
Maudlow/Toston fire - included Broadwater County, 81687 acres burned, 1 resident destroyed, 1 outbuilding destroyed, human caused, continued from August.									
Lewis And Clark County									
1 SW Wolf Creek	01 22	0000MST 1545MST			0	0			Wild/Forest Fire

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							
MONTANA, Central									
Wolf Creek fire, 389 acres burned, vehicle caused, continued from August.									
Teton County									
35 W Bynum	01	0000MST			0	0			Wild/Forest Fire
	23	1600MST							
McDonald 2 fire, 4345 acres burned, lightning caused, continued from August.									
Judith Basin County									
40 SW Utica	01	0000MST			0	0			Wild/Forest Fire
	23	1600MST							
Judith Complex fire - includes northeast Meagher County, 14600 acres burned, lightning caused, continued from August.									
Blaine County									
11 S Chinook	02	1801MST			0	0			Thunderstorm Wind (G53) ^M
Chouteau County									
6 N Big Sandy	04	2203MST			0	0			Hail (0.75)
Chouteau County									
17 E Ft Benton	04	2203MST			0	0			Hail (0.75)
Chouteau County									
26 E Big Sandy	04	2220MST			0	0			Hail (0.75)
Cascade County									
10 SW Eden	04	2320MST			0	0			Hail (0.75)
Cascade County									
Great Falls	05	1530MST			0	0			Hail (0.75)
Cascade County									
12 E Cascade	05	1530MST			0	0			Hail (0.75)
Cascade County									
3 E Centerville	05	1605MST			0	0			Hail (0.75)
Cascade County									
Belt	05	1620MST			0	0			Hail (1.00)
Chouteau County									
6 SE Highwood	05	1645MST			0	0			Hail (1.75)
Chouteau County									
Shonkin	05	1645MST			0	0			Hail (1.25)
Chouteau County									
Geraldine	05	1700MST			0	0			Hail (1.00)
Chouteau County									
20 E Geraldine	05	1722MST			0	0			Hail (1.00)
Chouteau County									
15 NE Geraldine	05	1730MST			0	0			Funnel Cloud
Chouteau County									
Geraldine	05	1730MST			0	0			Hail (1.00)
Fergus County									
15 NW Winifred	05	1730MST			0	0	2K		Hail (1.00)
Damage to house and vehicle.									
Fergus County									
Winifred	05	1730MST			0	0			Funnel Cloud
Fergus County									
3 SE Forestgrove	05	1945MST			0	0			Hail (0.75)
MTZ010									
	08	1435MST			0	0			High Wind (G36) ^M
Steady winds at CTB AWOS.									
MTZ010									
	09	1055MST			0	0			High Wind (G52)
Mission Lake...15 miles southwest of Cut Bank.									
Lewis And Clark County									
30 W Augusta	15	2000MST			0	0			Wild/Forest Fire
	23	1600MST							
Bunyan Point fire, 400 acres burned, lightning caused.									
Teton County									
20 W Choteau	17	1400MST			0	0			Wild/Forest Fire
	23	1600MST							
Ear Mountain fire, 1978 acres burned, lightning caused.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>MONTANA, Central</u>									
MTZ011	Hill								
	21	0530MST 1730MST			0	0			Winter Storm
		10 inches at Shonkin.							
MTZ010	Eastern Glacier								
	30	1200MST			0	0			High Wind (G38) ^M
		Steady winds at CTB AWOS.							
<u>MONTANA, East</u>									
Phillips County									
Zortman	02	1145MST			0	0			Hail (0.75)
Sheridan County									
18 N Reserve	02	1630MST			0	0			Hail (1.00)
Sheridan County									
13 W Reserve	02	1700MST			0	0			Hail (1.00)
Sheridan County									
Reserve	02	1735MST			0	0			Hail (1.00)
Sheridan County									
1 NW Dagmar	02	1808MST			0	0			Hail (0.75)
Valley County									
8 SE Hinsdale	04	0240MST			0	0			Hail (0.75)
Valley County									
8 SE Hinsdale	04	0330MST			0	0			Hail (0.75)
Valley County									
Lustre	04	0335MST			0	0			Hail (1.00)
Valley County									
14 NW Glasgow	04	0337MST			0	0			Hail (1.00)
Daniels County									
5 SW Scobey	04	0345MST			0	0			Hail (0.75)
Richland County									
12 N Enid	04	0500MST			0	0			Hail (0.75)
Phillips County									
Zortman	04	0652MST			0	0			Hail (0.75)
Phillips County									
25 SSW Malta	04	0730MST			0	0			Hail (0.75)
Phillips County									
25 SSW Malta	04	0820MST			0	0			Hail (0.75)
Valley County									
4 SW Hinsdale	04	0855MST			0	0			Hail (0.88)
Valley County									
4 SW Hinsdale	04	0901MST			0	0			Hail (1.75)
Valley County									
Hinsdale	04	0910MST			0	0			Hail (0.75)
Valley County									
Vandalia	04	0940MST			0	0			Hail (0.75)
Phillips County									
6 SW Zortman	05	1832MST			0	0			Hail (0.75)
<u>MONTANA, South</u>									
Musselshell County									
Melstone	06	0820MST			0	0			Thunderstorm Wind (G75)
MTZ028>029-031>038	Wheatland - Musselshell - Northern Rosebud - Custer - Fallon - Stillwater - Yellowstone - Powder River -								
		Carter - Southern Big Horn							
	22	0600MST 2100MST			0	0	14K		Heavy Snow
<p>A strong cold front moved through south central Montana. In addition, an area of low pressure formed in central Wyoming and moved northeast into southeast Montana. This provided a large area of upslope over south central Montana. The combination of these two systems brought the first snow of the season to the area. Trees still had full foliage, and as a result, many areas experienced power outages due to broken tree limbs on power lines. Many trees were also damaged.</p> <p>Snowfall amounts ranged from 4 inches to 18 inches. Roscoe received 18 inches. Red Lodge reported 12 inches. Livingston and Billings received 4 inches. There were many areas that reported anywhere from 6 to 12 inches of snowfall.</p>									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

MONTANA, West

MTZ043

Blackfoot Region

09 1730MST
1930MST

1

8

Dust Storm

Wind gusts between 40 to 50 mph blew over a newly plowed farm field, which reduced visibility to near zero from dust on highway 200 near Greenough. A multiple car accident occurred in the dust storm with eight people injured. One woman died along the highway as she got out of her vehicle and was struck by a passing vehicle.
F65OU

Flathead County

Whitefish

10 1410MST
1430MST

2

0

0

0

Tornado (F0)

Whitefish attorney followed and photographed a tornado that formed near Big Mountain, traveled near Whitefish Lake and then dissipated over Iron Horse brewery. No damage reported.

Lake County

Elmo to Polson

21 0830MST
1500MST

0

0

Storm Surge

An arctic front from the north moved over Flathead Lake generating strong gusty winds to 50 mph. Winds over the lake generated waves from 6 to 10 feet high, which damaged docks and piers along the lake shore. Several boats also sank from high waves.

Lake County

Elmo to Polson

21 0830MST
1030MST

0

0

Waterspout

Weather spotters on and around Flathead Lake, reported multiple waterspouts on the lake and strong gusty winds.

NEBRASKA, Central

Mcpherson County

3 N Tryon

03 1410CST

0

0

Hail (0.75)

Deuel County

Big Spgs

03 1642MST

0

0

25K

Hail (1.75)

Keith County

7 SW Brule

03 1650MST

0

0

Hail (1.00)

Hayes County

7 E Hamlet

08 1810CST

0

0

Hail (0.75)

Garfield County

5 NW Burwell

08 2125CST

0

0

50K

Thunderstorm Wind

Downburst winds destroyed a 32x40 foot metal pole barn.

NEBRASKA, East

Washington County

Herman

02 1823CST

0

0

3K

Thunderstorm Wind (G55)

Thunderstorm winds estimated at over 60 mph damaged outbuildings near Herman.

Washington County

Herman

02 1823CST

0

0

Hail (0.88)

Lancaster County

Lincoln

03 0150CST

0

0

Hail (1.00)

One inch hail was reported at 63rd and Havelock and 70th and A Streets in Lincoln.

NEBRASKA, Extreme Northeast

NONE REPORTED.

NEBRASKA, Extreme Southwest

NEZ079>081

Dundy - Hitchcock - Red Willow

01 0000CST
30 0000CST

0

0

Drought

Severe to Extreme Drought Conditions continued across far southwest Nebraska during the month. Fall crop harvest started early due to the dry weather. In addition, most rivers and creeks remained dry.

Hitchcock County

7 N Stratton

08 1804CST

0

0

Hail (0.88)

NEBRASKA, South Central

NEZ039>041-046>049- Valley - Greeley - Nance - Sherman - Howard - Merrick - Polk - Dawson - Buffalo - Hall - Hamilton - York -
060>064-072>077- Gosper - Phelps - Kearney - Adams - Clay - Fillmore - Furnas - Harlan - Franklin - Webster - Nuckolls -
082>087 Thayer

01 0000CST
30 2359CST

0

0

0

240M

Drought

As the 2000 growing season came to a close, south-central Nebraska continued in the grip of the year long drought. Beginning in the fall of 1999, the combination of above normal temperatures and significantly lower than normal rainfall had given farmers reduced crop yields, placed stress on livestock and literally "dried up" pastures for grazing.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

NEBRASKA, South Central

Since late 1999, many areas are 5 to 10 inches below the normal rainfall expected during the period. Two regions particularly hard hit were near the Kansas border around Superior and from north of Grand Island to north of York. In the Superior area, the 2000 rainfall has been about 12 inches, or roughly half of the normal amount. Dry land crops were hardest hit, but irrigated fields also sustained yield loss along with the increased cost of the irrigation. The per-farm loss is estimated at about \$10,000. Most of the losses were from lower corn and soybean yields, but increased irrigation costs and the loss of pasture and hay was also included. In fact, producers were granted the opportunity to cut the road sides for hay to offset lost hay needed to feed herds in the winter. The governor estimated the total effect on the Nebraska economy to be around 1 billion dollars.

Howard County 3 SE St Libory	03	1945CST			0	0	10K	250K	Hail (1.75)
Hamilton County Marquette	03	2025CST			0	0	10K	250K	Hail (1.00)
Hamilton County 6 E Marquette	03	2050CST			0	0	10K	250K	Hail (1.00)
Polk County 2 SE Polk	03	2115CST			0	0	10K	250K	Hail (1.00)
York County 10 N Bradshaw	03	2115CST			0	0	10K	250K	Hail (1.00)

A single, isolated severe thunderstorm moved from near Saint Libory to Polk and dumped hail from 1 to 2 inches in diameter.

Dawson County Lexington	05	0220CST			0	0	250K	0	Lightning
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Lightning struck the only dry cleaning business in Lexington about 320 am. The resulting fire burned the building to the ground. Fire personnel from Lexington, Cozad and Overton were called to the scene, but to no avail. Infernos were seen as cleaning chemicals in the building caught fire. It took more than 6 hours to control the flames. The loss was estimated at \$250,000. The decision to rebuild has not yet been made.

NEBRASKA, West NEZ020

Banner									
23	2000MST				0	0			Heavy Snow
24	1000MST								

Heavy snow fell over parts of Banner county, with up to 12 inches reported west of Harrisburg, NE.

NEVADA, North

NONE REPORTED.

NEVADA, South

NONE REPORTED.

NEVADA, West

Churchill County Fallon	01	1210PST			0	0	0		Hail (0.75)
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Sheriff's office in Fallon reported marble size hail and heavy rain that lasted 10-15 minutes.

NEW HAMPSHIRE, North and Central

NONE REPORTED.

NEW HAMPSHIRE, Southern

NONE REPORTED.

NEW JERSEY, Northeast

Hudson County West Portion	03	1349EST			0	0			Flash Flood
Essex County Orange	03	1416EST			0	0			Flash Flood
Bergen County New Milford to Hackensack	03	1510EST 1515EST			0	0			Flash Flood

Slow moving thunderstorms produced periods of torrential rain that caused widespread flash flooding of low-lying and poor drainage areas across the region. NWS radar estimated rainfall rates of around 2 inches per hour that lasted up to 2 hours. In Kearney, significant street flooding was reported. In addition, the local police department building was flooded. Significant flooding was reported along parts of Interstate 280 in Orange. The New Milford Police Department reported flash flooding of many roads with cars trapped in low-lying and poor drainage areas. Significant flooding was also reported by the Bergen County Office of Emergency Management in the vicinity of the intersection of Route 17 and Essex Street near the railroad crossing just west of Hackensack.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
NEW JERSEY, South and Northwest									
Somerset County									
West Central Portion	01	1845EST 2145EST			0	0			Flash Flood
Hunterdon County									
East Portion	01	1915EST 2145EST			0	0	100K		Flash Flood
Thunderstorms with torrential downpours moved over the same locations of Eastern Hunterdon County and West Central Somerset County. Hardest hit was Flemington in Hunterdon County and Branchburg Township in Somerset County. A SKYWARN Spotter in Branchburg measured 3.74 inches of rain within a two hour period. Nearly every roadway in the township including sections of U.S. Routes 22, 202 and 206 were flooded and closed. Several motorists were rescued from stranded vehicles. In Bound Brook, an overflowing stream flooded backyards. In Hunterdon County in Flemington, the torrential rains and sliding mud caused the west foundation wall of a house to collapse. The house was condemned and the occupants were sheltered in their daughter's house. Additional storm totals included 1.87 inches in Whitehouse Station (Hunterdon County) and 1.13 inches in Somerville (Somerset County). No serious injuries were reported.									
Hunterdon County									
Flemington	01 02	1845EST 1745EST			0	0	10K	0	Lightning
Lightning struck a garage in Flemington ans the ensuing fire destroyed it. No serious injuries were reported.									
Burlington County									
Mt Laurel	02	1745EST			0	0		0	Lightning
Lightning apparently struck a building within the Summit Apartment Complex in Mount Laurel Township. The ensuing fire damaged the building. No serious injuries were reported.									
Monmouth County									
Neptune	03	1500EST 1700EST			0	0		0	Heavy Rain
Thunderstorms with heavy rain caused poor drainage flooding on both New Jersey State Routes 33 and 35 in Neptune. Doppler Storm total estimates were between 1 and 2 inches, most of which fell within one hour.									
Ocean County									
Toms River	03	1530EST			0	0	2K	0	Lightning
Thunderstorms with frequent lightning caused minor damage to two homes in Toms River and also caused about 18,000 GPU Energy customers to lose power. Most of the outages were in Berkeley Township, Point Pleasant and Toms River. Most of the power was restored the morning of the 4th. Two houses within Toms River were struck by lightning, but only minor damage and no injuries occurred.									
Ocean County									
2 SW Shore Acres	03	1630EST			0	0		0	Tstm Wind/Hail
A thunderstorm's gust front caused the capsizing of a small boat in Dover Township at the end of Silver Bay Road. Neither boater on board was injured.									
Camden County									
Haddonfield	03 04	2232EST 0422EST			0	0			Flood
Thunderstorms with torrential downpours dropped a Doppler Radar storm total estimate of around 3 inches in the headwater area of the Cooper River in Camden County. This caused the river to flood with four homes along it suffering flood damage, mainly to their basements. The Cooper River at Haddonfield, reached its 2.8 foot flood stage at 1132 p.m. EDT on the 3rd, crested at 3.06 feet at 115 a.m. EDT on the 4th and was back within bankfull at 422 a.m. EDT. No serious injuries were reported.									
Burlington County									
Countywide	15	0000EST 0300EST			0	0			Heavy Rain
Camden County									
Countywide	15	0000EST 0300EST			0	0			Heavy Rain
Mercer County									
Countywide	15	0000EST 0300EST			0	0			Heavy Rain
Monmouth County									
Countywide	15	0000EST 0300EST			0	0			Heavy Rain
Ocean County									
Countywide	15	0000EST 0300EST			0	0			Heavy Rain

Thunderstorms preceding and accompanying a slow moving cold front produced a few hours of heavy rain across the central third of New Jersey during the early morning on the 15th. Poor drainage flooding occurred, especially in low-lying areas. The heavy rain caused the brief closure of New Jersey State Route 70 in Wall Township (Monmouth County). But, no serious flooding or injuries were reported. Storm totals included 3.38 inches in Manasquan (Monmouth County), 3.18 inches in Brick (Ocean County), 2.45 inches in Pennsauken (Camden County), 2.38 inches in New Lisbon (Burlington County), 1.98 inches in Freehold (Monmouth

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, South and Northwest

County), 1.64 inches in Mount Holly (Burlington County), 1.62 inches in Wrightstown (Burlington County) and 1.40 inches in Hamilton Square (Mercer County).

Monmouth County

Neptune

15 0200EST 0 0 40K 0 Lightning

Lightning struck the communications tower of the Neptune Police Department. The lightning proceeded to damage the police radios, repeaters and dispatch consoles. All 911 calls were forwarded to the county center. The police operated from a backup communications center. Normal operations were expected to be resumed the evening of the 15th. The frequent lightning caused about 7,000 customers to lose power in Central New Jersey.

Burlington County

Palmyra to Bordentown

19 1500EST 0 0 0 Heavy Rain
1800EST

Camden County

Collingswood

19 1500EST 0 0 0 Heavy Rain
1800EST

Mercer County

West Portion

19 2000EST 0 0 0 Flood
2030EST

The remnants of what once was Hurricane Gordon dropped heavy rain across west central and southwest New Jersey during the late afternoon and early evening of the 19th. It caused poor drainage flooding in low-lying areas. The heaviest rain fell in Mercer County and caused some minor flooding along the Assunpink Creek. The rain was not unusually heavy, but came after what was already an unseasonably wet September and summer. The Assunpink Creek at Trenton was above its 7 foot flood stage from 9 p.m. until 930 p.m. EDT on the 19th. It crested at 7.1 feet at 919 p.m. EDT. Roadway flooding along U.S. Route 130 was reported in Collingswood. Storm totals included 2.14 inches in Trenton (Mercer County), 2.10 inches in Pennsauken (Camden County), 2.00 inches in Somerdale (Camden County) and Windsor (Mercer County), 1.74 inches in Mount Laurel (Burlington County) and 1.66 inches in Mount Holly (Burlington County). No serious injuries were reported.

Burlington County

Countywide

25 1300EST 0 0 0 Heavy Rain
26 0700EST

Camden County

Countywide

25 1300EST 0 0 0 Heavy Rain
26 0700EST

Gloucester County

Countywide

25 1300EST 0 0 0 Heavy Rain
26 0700EST

Salem County

Countywide

25 1300EST 0 0 0 Heavy Rain
26 0700EST

Cumberland County

Countywide

25 1400EST 0 0 0 Heavy Rain
26 0800EST

Atlantic County

Countywide

25 1500EST 0 0 0 Heavy Rain
26 0900EST

Cape May County

Countywide

25 1500EST 0 0 0 Heavy Rain
26 0900EST

Ocean County

Countywide

25 1500EST 0 0 0 Heavy Rain
26 0900EST

A slow moving low pressure system helped drop heavy rain across the southern half of New Jersey. Storm totals averaged between 2 and 3 inches, but approached 4 inches in and around Atlantic City. The heaviest rain fell during the evening of the 25th into the early morning of the 26th. While the rain was heavy, hourly totals rarely exceeded 0.50 inches. This kept the major streams, creeks and rivers within their banks. Nevertheless there was considerable urban, low-lying area and poor drainage flooding. Storm totals included 3.81 inches at the Marina within Atlantic City, 3.54 inches in Margate (Atlantic County), 3.32 inches in Absecon (Atlantic County), 3.26 inches in Hammonton (Atlantic County), 3.07 inches in Washington Township (Gloucester County), 2.96 inches in Somerdale (Camden County), 2.93 inches at the Atlantic City International Airport, 2.92 inches in Seabrook (Cumberland County), 2.83 inches in Verga (Gloucester County), 2.78 inches in New Lisbon (Burlington County), 2.61 inches in Pennsauken (Camden County), 2.46 inches in Mount Laurel (Burlington County), 2.37 inches in Mount Holly (Burlington County) and 1.73 inches in Trenton (Mercer County). The low pressure system responsible for the heavy rain, traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. By the evening of the 26th, the low was well offshore.

NJZ013>014-023>026

Western Monmouth - Eastern Monmouth - Western Cape May - Eastern Cape May - Eastern Atlantic -

Eastern Ocean

25 1700EST 0 0 0 Coastal Flooding
26 2000EST

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Property	Estimated Damage Crops	Character of Storm
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NEW JERSEY, South and Northwest

The combination of spring tides near the new moon, a high pressure system over New England and a low pressure system over the Middle Atlantic States produced widespread minor tidal flooding during the times of high tide from the evening of the 25th through the evening of the 26th. The highest tides occurred during the morning of the 26th. The low pressure system traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. The onshore flow persisted for several tide cycles. By the evening of the 26th, the low was far enough offshore for winds to start backing to the northwest. The highest tide at Sandy Hook was 7.7 feet above mean lower low water (a departure of 2.1 feet above normal), at Cape May 7.6 feet above mean lower low water (a departure of 2.1 feet above normal) and 7.3 feet above mean lower low water at Atlantic City (a departure of 2.6 feet above normal).

NJZ013>026

Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean

30 2359EST 0 0 Unseasonably Wet

September 2000 continued the trend of unseasonably wet weather for the southern two-thirds of New Jersey. The heaviest rainfall totals fell in a swath from Salem County northeast to Ocean County. On a county weighted average, September monthly rainfall totals ranged from 4.8 inches in Cape May County to 7.7 inches in Camden County. Normal monthly rainfall is around 3.6 inches. At the Marina within Atlantic City, the monthly rainfall total of 6.42 inches was the 9th wettest September on record. Monthly rainfall was around average for the northern one third of New Jersey.

NEW MEXICO, Central and North

NMZ001>016-
018>021-026

Northwest Plateau - Northwest Mountains Including Jemez - Upper Rio Grande Valley - Sangre De Cristo Mountains - Northeast Highlands - Harding - Far Northeast Plains - Westcentral Mountains - Middle Rio Grande Valley - Sandia/Manzano Mountains - Central High Plains/Estancia Valley County - Conchas Lake/Guadalupe - Quay - Southwest Mountains/Upper Gila Region - Lower Rio Grande Valley - Lincoln County High Plains/Hondo Valley - De Baca - Chaves County Plains - Roosevelt - Curry - Guadalupe Mountains Of Chaves County

01 0000MST 0 0 Drought
30 2359MST

Unusually warm and dry weather persisted into September for much of the state with fire danger remaining high and cities implementing or continuing water conservation measures. Record high temperatures were broken in many cities on several days including the 11th and the 14th. Summer rains through September ranged from 25 to 70 percent of normal.

NMZ020

Roosevelt

07 1430MST 0 0 5K Other

A strong dust devil tore off half the roof from a park pavilion in Portales.

**Bernalillo County
Albuquerque**

18 1430MST 0 0 15K Dry Microburst
1930MST

An upper level disturbance moved over the state with gusty winds and dry microbursts of 50 mph at Albuquerque. Several large cottonwood trees were toppled in the Rio Grande bosque. Winds forced an early evening closing of the New Mexico State Fair.

NEW MEXICO, South Central and Southwest

NONE REPORTED.

NEW MEXICO, Southeast

NONE REPORTED.

NEW YORK, Central

**Chenango County
South Otselic**

02 1430EST 0 0 5K Heavy Rain
1600EST

1.5 to 2 inches of rain in 90 minutes. Severe roof leak at Otselic Valley Junior-Senior High School.

**Cortland County
Marathon**

03 2330EST 0 0 20K Lightning

Lightning strike started a barn fire. Major damage to upper floors. No injuries to livestock or humans.

**Oneida County
Utica**

09 0900EST 0 0 Urban/Sml Stream Fld
1000EST

Rain from thunderstorm caused street flooding on Memorial Parkway and Lincoln Avenue.

**Cayuga County
Countywide**

12 1500EST 0 0 Thunderstorm Wind (G65)
1600EST

Trees and wires down from Brutus to Locke.

**Onondaga County
Countywide**

12 1520EST 0 0 Thunderstorm Wind (G65)
1600EST

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
NEW YORK, Central									
Trees and wires down. Power outages Tully, Syracuse, Baldwinsville, and LaFayette.									
Oneida County Verona	12	1555EST			0	0			Thunderstorm Wind (G60)
Trees down									
Tompkins County Trumansburg	12	1555EST			0	0			Thunderstorm Wind (G60)
Trees down. Power outages.									
Oneida County Lee to Rome	12	1600EST 1615EST			0	0			Thunderstorm Wind (G60)
Downed wires. Wires started small brush fires.									
Madison County Chittenango to Canastota	12	1602EST 1630EST			0	0			Thunderstorm Wind (G65)
Numerous trees and wires down. Also reported in Cazenovia.									
Tompkins County Groton	12	1610EST			0	0			Thunderstorm Wind (G60)
Several trees down.									
Tompkins County Ithaca	12	1610EST			0	0			Thunderstorm Wind (G60)
Trees down. Power outages.									
Cortland County East Homer	12	1615EST			0	0			Thunderstorm Wind (G60)
Trees down.									
Tompkins County Cayuga Hgts	12	1615EST			0	0			Thunderstorm Wind (G60)
Trees down. Power outages.									
Chemung County Horseheads	12	1625EST			0	0			Thunderstorm Wind (G60)
Trees down.									
Cortland County Mc Graw	12	1630EST			0	0			Thunderstorm Wind (G60)
Wires down. Also wires down in Cortland. Power outages.									
Tompkins County Dryden	12	1630EST			0	1			Lightning
Lightning hit 86 year old man, the house he was in and tree in yard. Man not hurt. Tree down by lightning in yard.									
Broome County Binghamton	12	1745EST			0	0			Thunderstorm Wind (G60)
Wires down. Also reported in Port Dickinson.									
Chenango County North Norwich	12	1751EST			0	0			Thunderstorm Wind (G60)
Tree down on Route 12.									
Chenango County Greene	12	1800EST			0	0			Thunderstorm Wind (G60)
Tree down on Route 9.									
Onondaga County Syracuse Intl Arpt	21	0252EST			0	0			Thunderstorm Wind (G58) ^M
Onondaga County Countywide	21	0300EST 0315EST			0	0			Thunderstorm Wind (G60)
Trees and wires down countywide including Liverpool and DeWitt. 3000 customers lost power.									
Madison County Countywide	21	0330EST 0400EST			0	0			Thunderstorm Wind (G60)
Trees and wires down countywide including Brideport and Oneida.									
Oneida County Countywide	21	0330EST 0400EST			0	0			Thunderstorm Wind (G60)
Trees and wires down countywide including Rome and Lee.									
Broome County Countywide	21	0405EST 0435EST			0	0			Thunderstorm Wind (G60)
Large limbs and wires down countywide including Endicott, Endwell, Chenango, and Port Dickinson.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<u>NEW YORK, Central</u>									
Chenango County Countywide	21	0405EST 0435EST			0	0		Thunderstorm Wind (G60)	
Trees down countywide including Preston, Greene, Bainbridge, and Guilford.									
Delaware County Countywide	21	0430EST 0500EST			0	0		Thunderstorm Wind (G60)	
Numerous trees and some wires down countywide including Bloomville, Hamden, Colchester, Walton, Treadwell, and Fleischmanns.									
Otsego County Countywide	21	0430EST 0500EST			0	0		Thunderstorm Wind (G60)	
Numerous trees down countywide including Richfield Springs and Pittsfield.									
Yates County Central Portion	23	0830EST 1130EST			0	0		Flash Flood	
4 to 5 inches of rain caused washed out roads and flooded basements mostly in the town of Jerusalem which includes Bluff Point, Branchport, Keuka Park and Keuka Lake State Park. Rain was caused by training thunderstorms in the same area where heavy rain fell earlier that morning.									
Northern Oneida - Yates - Seneca - Southern Cayuga - Onondaga - Steuben - Schuyler - Chemung - Tompkins - Madison - Southern Oneida - Cortland - Chenango - Otsego - Tioga - Broome - Delaware - Sullivan									
NYZ009-015>018- 022>025-036>037- 044>046-055>057-062	28 29	2200EST 1000EST			0	0		Extreme Cold	
On the evening of the 28th and the morning of the 29th a widespread killing freeze occurred across central New York and northeast Pennsylvania. Most observations had low temperatures below 30 degrees Fahrenheit. Record lows for the 29th of September were set in Syracuse and Binghamton New York and Avoca Pennsylvania. All three were at least in the coldest five temperatures for September.									
<u>NEW YORK, Coastal</u>									
Orange County Cornwall	01	1750EST			0	0		Flash Flood	
Slow moving thunderstorms produced periods of torrential rain that caused flash flooding of many low-lying and poor drainage areas in Cornwall. NWS radar estimated a 3 to 4 inch rainfall, which began around 3:50 pm EDT and ended around 6:50 pm. Staff from The Times Herald Record reported significant serious street flooding along with some basement flooding in Cornwall. A spotter from New Windsor, about 5 miles north of Cornwall, measured 2.75 inches.									
Suffolk County South Huntington to Dix Hills	02	1225EST			0	0		Flash Flood	
Orange County Highland Falls	02	1815EST			0	0	500K	Flash Flood	
Slow moving thunderstorms produced torrential rain that caused serious widespread flash flooding of low-lying and poor drainage areas across a narrow band of west central Suffolk County. NWS radar estimated rainfall rates from around 2 to 2.5 inches per hour that lasted at least 2 consecutive hours. Rainfall amounts estimated up to 5 inches caused water to rapidly accumulate to more than 3 feet on many streets and submerged several cars from South Huntington east to Dix Hills.									
Bands of heavy showers and thunderstorms moved very slowly southeast ahead of an approaching cold front. NWS radar estimated up to 6 inches of rain fell in the vicinity of Highland Falls, where numerous reports of flash flooding were received. At least 94 of 100 houses surveyed, showed at least minor flood damage. There were many flash flooding reports of basements, low-lying and poor drainage areas, and small streams.									
Nassau County Levittown	03	1230EST			0	0		Flash Flood	
Suffolk County East Farmingdale to North Amityville	03	1230EST			0	0		Flash Flood	
Queens County Northeast Portion	03	1330EST 1350EST			0	0		Flash Flood	

Nearly stationary thunderstorms produced torrential rain that caused significant flash flooding of low-lying and poor drainage areas across parts of Nassau, Western Suffolk and Northeastern Queens Counties. Radar estimated up to 3 inches of rainfall that caused flash flooding of many streets across the area, including Hempstead Turnpike in Levittown, Merrit Street in North Amityville and parts of the Cross Island Parkway, Whitestone Expressway and Northern Blvd. in Northeastern Queens. People had to be rescued

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Coastal

from their cars on Northern Blvd. as water quickly accumulated and submerged the cars. Additionally, several residential basements in poor drainage areas were also flooded.

Nassau County
Atlantic Beach to
Farmingdale
Suffolk County
Countywide

15	0100EST 0700EST			0	0				Heavy Rain
15	0100EST 0700EST			0	0				Heavy Rain

As a strong cold front approached the region, bands of heavy showers and thunderstorms swept across the area. Rainfall amounts from 2 to 3 inches in a 3 to 6 hour period caused localized flooding of low-lying and poor drainage areas. Here are selected rainfall amounts for:

Suffolk County: from 2.10 inches reported by a NWS Cooperative Observer at Setauket to 2.57 inches measured by the Automated Surface Observing System at Islip McArthur Airport.

Nassau County: 2.25 inches was measured by a NWS Cooperative Observer in Wantagh. NWS radar estimated rainfall amounts from 2 to 3 inches across other parts of Southern Nassau County.

Suffolk County
Southold

15	0520EST	0.1	20	0	0				Tornado (F1)
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As a line of thunderstorms and heavy showers moved southeast, one cell spawned a short-lived tornado in the town of Southold on the North Fork of Long Island.

The National Weather Service conducted a storm survey and confirmed the occurrence of a weak tornado in the Nassau Point area of Little Hog Neck. This tornado was classified as an F1 with wind speeds estimated from 80 to 100 mph.

The weak tornado first touched down in the back yard of three homes on the west side of Nassau Point Road around 6:20 am EDT. Then it moved through the front yard of one of the homes, where it did its' greatest damage. Most of the damage was to trees. Many trees had numerous branches twisted off and several trees were snapped off and deposited a good distance from where they grew. Slight structural damage was done to the roof of the house.

The tornado crossed over to the east side of Nassau Point Road and apparently lifted as it moved across Hog Neck Bay. It touched down again in Bayview (on the other side of Hog Neck Bay) around 6:40 am EDT. Two eyewitnesses on Rambler Road experienced very strong winds, which uprooted trees and damaged several pieces of heavy lawn furniture. In this vicinity, the tornado was classified as an F0, with an approximate path length of 0.1 miles and average path width of 10 yards.

Orange County
Montgomery to
Monroe

19	1430EST 1900EST			0	0				Heavy Rain
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As the remnants from tropical system Gordon moved north along the Atlantic coast, rain, which was heavy at times, spread north across the area. The heaviest rain occurred east of a line from Montgomery to Monroe, mainly across the eastern third of Orange County. Six hour rainfall amounts from 2 to 3 inches caused minor flooding of small streams and low-lying and poor drainage areas. NWS spotters reported minor small stream flooding along parts of Rte. 132 in Woodbury (a few miles north of Highland Mills).

NEW YORK, East

Saratoga County
Ballston Spa
Herkimer County
Herkimer
Herkimer County
East Herkimer
Herkimer County
Little Falls

02	1700EST			0	0	12K			Thunderstorm Wind
02	1800EST 2000EST			0	0	15K			Flash Flood
02	1815EST 2000EST			0	0	25K			Flash Flood
02	1838EST 2010EST			0	0	29K			Flash Flood

Slow moving thunderstorms developed along a stationary front across eastern New York during the afternoon of September 2. With a tropical air mass in place, the thunderstorms produced very heavy rain. One cell became briefly severe as it moved across Saratoga County. Wind from this storm brought down trees at Ballston Spa. Meanwhile, a series of slow moving thunderstorms moved over Herkimer county and produced brief heavy rainfall. Doppler radar estimated up to 4 inches of rainfall in the south central section of the county. The result was flash flooding on the streets of Herkimer. Carden Creek, in East Herkimer, overflowed its banks onto a nearby road. Basements of nearby homes flooded. State Highway Route 5 in Little Falls was closed between Falange's and Gun Club Road, as it was covered with two feet of water and mud for a few hours.

Storm Data and Unusual Weather Phenomena

September 2000

		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		September 2000
Location	Date				Killed	Injured	Property	Crops	Character of Storm
<u>NEW YORK, East</u>									
Herkimer County									
Frankfort	21	0445EST			0	0	15K		Thunderstorm Wind
Montgomery County									
Ft Plain	21	0500EST			0	0	9K		Thunderstorm Wind
Schoharie County									
Charlotteville	21	0510EST			0	0	13K		Thunderstorm Wind
Schenectady County									
Duanesburg	21	0515EST			0	0	17K		Thunderstorm Wind
Fulton County									
Caroga Lake	21	0520EST			0	0	25K		Thunderstorm Wind
Montgomery County									
Canajoharie	21	0520EST			0	0	20K		Thunderstorm Wind
Montgomery County									
St Johnsville	21	0520EST			0	0	12K		Thunderstorm Wind
Saratoga County									
Ballston Spa	21	0520EST 0535EST			0	2	250K		Thunderstorm Wind
Saratoga County									
Galway	21	0520EST			0	0	18K		Thunderstorm Wind
Warren County									
Warrensburg	21	0530EST			0	0			Hail (0.88)
Albany County									
Rensselaerville	21	0600EST			0	0	30K		Thunderstorm Wind
Schenectady County									
Schenectady	21	0600EST			0	0	17K		Thunderstorm Wind
Washington County									
Ft Edward	21	0615EST			0	0	6K		Thunderstorm Wind
Washington County									
Battenville to Granville	21	0630EST			0	0	75K		Thunderstorm Wind

A line of thunderstorms, that formed ahead of a fast moving and powerful cold front , became locally severe as it moved into eastern New York during the early morning hours of September 21. Thunderstorm winds blew down trees and power lines in Frankfort, Herkimer county. More trees were blown down at Fort Plain, Canajoharie and St. Johnsville, all in Montgomery county. Trees and wires were knocked down at Caroga Lake in Fulton county. Trees fell in Charlottesvile, Schoharie county. In Schenectady county, trees were reported blown over in both Duanesburg and the city of Schenectady. Numerous trees fell in Rensselaerville and areas just to the north, in Albany county. By far, the most concentrated and severe damage took place at Ballston Spa in Saratoga county. A strong microburst, with winds estimated between 75 and 100 miles-an-hour, covered a swath 75 yards wide and 500 yards long. The microburst went through the Curtis Lumber facility. Winds destroyed a portion of the barn structure, scattering heavy lumber across the yard and removing roofing. The wind drove a piece of the roof through the cab of a parked truck cab, impaling the truck driver's left leg, and critically injuring him. He had to be removed from the vehicle by the Jaws of Life. Another passenger in the cab sustained superficial injuries. Another nearby truck also sustained damage. An executive at Curtis Lumber reported spotting a funnel cloud, which was likely a minor vortex, spun up by downburst action. The official National Weather Service survey found no evidence of tornadic damage. The damage was in a large fan pattern consistent with an intense microburst. More trees fell in nearby in Ballston Spa and Galway.

Another microburst hit the Town of Jackson, in Washington County, knocking over an estimated 1000 trees. Also in Washington county, trees were blown down at Fort Edward.

There was one significant hail report with the storms. Nickel size hail was reported at Warrensburg in Warren County.

NEW YORK, North

NYZ030

Southern Franklin

21	0400EST 0600EST	0	0	10K	High Wind (G54) ^M
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A strong cold front moved across the north country during the early morning. High winds accompanied the front with trees and power lines blown down blocking some roads in the Lake Clear area. Winds at Saranac Lake Airport (ASOS) gusted to 54 knots (62 mph) at 435 AM EST (535 AM EDT). In Paul Smiths and Gabriels, NY the winds blew down numerous trees and power lines.

NYZ027

Northern Franklin

21	0400EST 0600EST	0	0	5K	High Wind
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A strong cold front moved across the north country during the early morning. High winds accompanied the front with trees blown down in Malone, NY.

NYZ034

Western Essex

21	0400EST 0600EST	0	0	5K	High Wind
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A strong cold front moved across the north country during the early morning. High winds accompanied the front with trees and power

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, North

lines blown down in Bloomingdale, NY as well as the North Elba and Lake Placid areas.

Clinton County Peru

21 0525EST 0 0 1K Thunderstorm Wind

A strong cold front moved across the north country during the early morning. Thunderstorms with strong winds blew trees down in Peru, NY.

NEW YORK, West

Wyoming County Java Center

02 1610EST 0 0 175K Flash Flood
1730EST

Wyoming County Arcade

02 1630EST 0 0 175K Flash Flood
1730EST

Cattaraugus County Randolph

02 1640EST 0 0 75K Flash Flood
1800EST

Strong afternoon thunderstorms dropped three to four inches of rain on a small portion of western Wyoming and northeast Cattaraugus counties. This resulted in flash flooding and rapid rises on Buffalo Creek. At least 50 homes were flooded in Wyoming county with twelve severely damaged. Java, Machias and Sheldon declared States of Emergency. Driveways and road shoulders were washed away. Many roads were closed by flood waters and debris.

Cayuga County Cato

12 1500EST 0 0 8K Thunderstorm Wind

Oswego County Pennellville

12 1501EST 0 1 20K Thunderstorm Wind

Oswego County West Monroe

12 1530EST 0 0 10K Thunderstorm Wind

Lewis County Constableville

12 1548EST 0 0 8K Thunderstorm Wind

Thunderstorms crossed the eastern Lake Ontario region during the afternoon hours. The thunderstorm winds downed trees and power lines. One person was slightly injured in Pennellville when the car they were in was crushed by a falling tree.

Chautauqua County Brocton

20 2240EST 0 0 10K Thunderstorm Wind

Cattaraugus County Randolph

20 2325EST 0 0 20K Thunderstorm Wind

Erie County Elma

20 2330EST 0 0 8K Thunderstorm Wind

Thunderstorms crossed the western southern tier during the late evening hours. The thunderstorm winds downed trees and power lines. Scattered power outages were reported.

Erie County Blasdell

23 0930EST 0 0 250K Flash Flood
1100EST

Wyoming County Sheldon Center

23 0930EST 0 0 50K Flash Flood
1100EST

NYZ010-010-010

**Erie
23 0940EST 0 0 150K Flood**
2245EST

A soaking rain fell over the entire region on the 23rd, but a narrow band of two to four inches fell just south of Buffalo due to enhancement off Lake Erie. Local amounts of four inches were recorded in Hamburg and Orchard Park. A State of Emergency was declared in Blasdell. Roads were washed out and basements flooded throughout the southtowns. The heavy rains caused three area creeks to overflow their banks. Cazenovia Creek at Ebenezer, with a flood stage of 10 feet, reached a stage of 12.79 feet. Buffalo Creek at Gardenville crested at 8.0 feet-- a foot above flood stage. Cayuga Creek at Lancaster, with a flood stage of 8 feet, peaked at 8.76 feet.

NORTH CAROLINA, Central

Guilford County Greensboro

01 1858EST 0 0 Flash Flood
2100EST

Highways flooded with 2 to 3 feet of water in some locations. The roof on the Walmart on Wendover Ave. caved in, and the Maplewood Apartments were evacuated due to flooding.

Stanly County Richfield

02 1200EST 0 0 Flash Flood
1600EST

One foot of water was reported to be flowing across roads near Pfeiffer College. Numerous roads and bridges were flooded in the northern half of the county as creeks and streams overflowed their banks.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
NORTH CAROLINA, Central									
Scotland County Laurinburg	02	1400EST 1600EST			0	0			Flash Flood
Numerous roads had water running across them in low spots. Highways 401 and 74 were flooded.									
Franklin County Louisburg	03	0030EST 0300EST			0	0			Flash Flood
Several roads were closed due to high water including Highways 39 and 98.									
Wake County Raleigh	03	1810EST 2000EST			0	0			Flash Flood
Avent Ferry Road and Hillsborough Street were flooded. Two inches of rain in one hour was reported.									
Wake County Cary	03	1820EST			0	0			Lightning
Lightning struck a house.									
Warren County South Portion	03	1920EST 2100EST			0	0			Flash Flood
Numerous secondary roads were flooded around Afton.									
Wake County Raleigh	04	1450EST 1700EST			0	0			Flash Flood
Numerous roads were flooded across Raleigh. A creek was flowing across Avent Ferry Rd, Highway 401N was flooded, and some trucks were flooded up to their hoods in a car lot.									
Forsyth County Belews Creek	14	2105EST			0	0			Thunderstorm Wind (G50)
Trees and power lines down.									
Guilford County Stokesdale	14	2130EST			0	0			Thunderstorm Wind (G50)
Numerous trees reported down.									
Guilford County Greensboro Arpt	14	2254EST			0	0			Thunderstorm Wind (G52) ^M
ASOS at GSO recorded a 52kt wind gust.									
Guilford County Oak Ridge	14 15	2310EST 0130EST			0 0	0			Flash Flood
Numerous roads flooded on the west side of Greensboro, with a half foot of water flowing across some roads.									
Forsyth County Kernersville	14 15	2330EST 0100EST			0 0	0			Flash Flood
Hwy. 158 was flooded along with several secondary roads.									
Anson County Ansonville	22	1545EST 1800EST			0	0			Flash Flood
Polkton Rd. and Hwy. 742 were closed due to flooding.									
Cumberland County Hope Mills	22	1715EST 1815EST			0	0			Flash Flood
Numerous streets reported underwater.									
Harnett County Countywide	25	1630EST			0	0			Thunderstorm Wind (G50)
Several trees down across the county, mainly between Dunn and Angier.									
Moore County Aberdeen	25	1635EST			0	0			Hail (0.88)
Johnston County Coats Xrds	25	1710EST			0	0			Hail (0.75)
Harnett County Dunn	25	1730EST			0	0			Thunderstorm Wind (G50)
Trees reported down on Hwy. 55 and N Wilson St. A window was blown out of a store downtown.									
Wake County Raleigh	25	1830EST			0	0			Flash Flood
Several roads were flooded, resulting in lane closures on Garner Rd, Glenwood Ave, Creedmore Rd, and Litchford Rd.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
NORTH CAROLINA, Central									
Cumberland County Fayetteville	25	1845EST			0	0			Thunderstorm Wind (G50)
Trees down and a power outage of Fort Bragg were reported.									
NORTH CAROLINA, Central Coastal									
Duplin County Warsaw	04	1807EST 1830EST			0	0			Flood
Numerous roads closed due to high water.									
Lenoir County Kinston	04	1900EST 1930EST			0	0	50K		Flood
Numerous roads flooded in Kinston. Several homes flooded in the community of Tick Bite.									
Onslow County Countywide	18	1320EST 1800EST			0	0	1M		Flood
Between 1 p.m. and 7 p.m. up to 6 to 11 inches of rain fell across Onslow county. Eleven inches of rain fell over Camp Lejeune causing major flooding in hte French Creek area. About 12 cars were flooded along with some residenaces nd the fire station. By 340 p.m. most major roads in central and eastern Onslow county were closed and impassable due to flooding. A 40 foot section of Turkey Creek Road was washed away, prompting the rescue of several residents by local fire fighters. Up to 62,000 gallons of waste water spilled out of the treatment plant in Swansboro due to the flooding rain.									
Carteret County 3 E Stella to Stella	18	1537EST	0.1	50	0	0			Tornado (F0)
A weak F0 tornado touched down in Hadnot Creek near the town of Stella. The tornado was on the ground for a brief time and remained over the salt marsh.									
Craven County James City	18	1730EST 1850EST			0	0			Flood
Major flooding reported in James City and most of southern Craven county. A section of Old Cherry Point Road washed out. Some townhomes in Havelock also flooded.									
Lenoir County Kinston	25	1945EST			0	0	75K		Thunderstorm Wind
Thunderstorm winds knocked down several trees in Kinston, including one oak tree which destroyed 3 cars.									
NORTH CAROLINA, Extreme Southwest									
NONE REPORTED.									
NORTH CAROLINA, North Coastal									
Hertford County Como	01	1530EST 1600EST			0	0	0	0	Flash Flood
Slow-moving thunderstorms dumped heavy rain in portions of northeast North Carolina causing flooding and the closure of Route 258 near Como.									
NORTH CAROLINA, Northwest and North Central									
Surry County Elkin	03	1115EST 1315EST			0	0			Flash Flood
Heavy rain during midday on the 3rd caused streams and creeks on the west side of Elkin to flood.									
Stokes County Sandy Ridge	14	1945EST			0	0	0		Thunderstorm Wind
Stokes County Countywide	14	2030EST 2050EST			0	0	0		Thunderstorm Wind
Rockingham County Madison	14	2050EST 2100EST			0	0	0		Thunderstorm Wind
Thunderstorms during the evening of the 14th produced damaging winds.									
Thunderstorm winds downed trees in Madison and in Sandy Ridge. A second round of thunderstorms downed trees across Stokes County.									
NORTH CAROLINA, South Coastal									
Brunswick County Shallotte	05	0630EST 0800EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>NORTH CAROLINA, South Coastal</u>									
Law enforcement reported Big Neck Road closed and impassable due to flooding.									
Brunswick County Shallotte	18	1150EST 1250EST			0	0			Flash Flood
Law enforcement reported 1-2 feet of water on Main Street.									
New Hanover County Wilmington	18	1530EST			0	2	5K		Heavy Rain
Two accidents occurred due to the heavy rain on the Cape Fear Memorial Bridge. Minor injuries were reported.									
Brunswick County Bolivia to Leland	21	1410EST 1615EST			0	0			Flash Flood
Heavy rain produced a variety of flooding reports in Brunswick county. In Bolivia, law enforcement reported many roads underwater. Ocean Isle Beach had similar problems, with many road underwater and one report of rain falling at the rate of 3 inches per hour. Greenloop Road, a street in Leland, was reported to be washed out due to the rising water, and in Holden Beach, law enforcement reported more streets flooded, with traffic at a standstill.									
New Hanover County Carolina Beach	21	1515EST 1715EST			0	0			Flash Flood
Carolina Beach police department reported flooding caused the closing of Canal Street and Highway 421 along Greenfield Lake.									
Pender County Countywide	23	1030EST 1230EST			0	0			Flash Flood
Law enforcement reported many secondary roads countywide were covered with water.									
Columbus County Nakina	23	1240EST 1400EST			0	0			Flash Flood
Columbus county EMC reported creeks overflowed causing flooding.									
New Hanover County Carolina Beach	23	1320EST			0	0			Flash Flood
New Hanover EMC reported the Carolina Beach Lake had overflowed its banks.									
Brunswick County Grissettown	23	1337EST			0	0			Flash Flood
Brunswick county EMC reported a portion of Highway 17 flooded between Old Shallotte Road and NC 904. The Brunswick county sherriff's department reported that the southbound lane of Hwy 17 was detoured south of Shallotte. Newspaper articles also reported a wastewater spill at the Archer Daniels Midland citric acid plant due to excessive rainwater flow exceeding the capacity of the collection system. Approximately 13,500 gallons of industrial waste was discharged into the Cape Fear River. Flooding also caused a discharge of untreated wastewater from a collection system manhole on 9th Street in Southport of an estimated 4000 gallons.									
<u>NORTH CAROLINA, Southwest</u>									
NCZ033>037-048>059-062>072-082	Avery - Caldwell - Alexander - Iredell - Davie - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - McDowell - Burke - Catawba - Rowan - Graham - Northern Jackson - Macon - Southern Jackson - Transylvania - Henderson - Polk - Rutherford - Cleveland - Lincoln - Gaston - Mecklenburg - Cabarrus - Union								
	01	0000EST			0	0			Drought
	30	2359EST							
Overall, drought conditions continued across western North Carolina despite some locations receiving near their month's average rainfall. Low stream flow and municipal water supply remained the largest issues with many towns and cities enacting water restrictions. Citizens were quoted as saying this is the driest they have ever seen it. Despite the drought conditions, impact on crops seemed to be minimal.									
Cabarrus County Countywide	01 02	2300EST 0100EST			0	0			Urban/Sml Stream Fld
Heavy rain from slow-moving thunderstorms caused a considerable amount of standing water and minor flooding on secondary roads.									
Burke County 7 N Morganton	02	1200EST 1430EST			0	0			Flash Flood
Caldwell County Lenoir	02	1200EST 1430EST			0	0			Flash Flood
Heavy rain over a short period of time caused several creeks to rise out of their banks and a few roads, including US Hwys 321 and 321A, to be flooded. The height of the flood waters reached up to car doors. A couple of trees fell as their roots gave way in the soggy soil.									

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Southwest

Gaston County

Lowell **03** **1300EST** **0** **0** **Flash Flood**
1600EST

Union County

Monroe **03** **1600EST** **0** **0** **Flash Flood**
1800EST

Slow-moving thunderstorms producing very heavy rain caused high water in a few locations which flooded and closed roads for a couple of hours.

NCZ071

Mecklenburg

04 **0800EST** **0** **0** **Flood**

Excessive rain from nighttime convection in the area resulted in flooded farm fields and overflowing ditches along Hwy 73 about 4 miles west of Huntersville.

Buncombe County

7 S Asheville **04** **1900EST** **0** **0** **Hail (0.75)**

An isolated severe thunderstorm produced dime size hail on the Blue Ridge Parkway and Hwy 25.

NCZ052-059-063

Haywood - Northern Jackson - Southern Jackson

07 **0400EST** **0** **0** **Fog**
0900EST

Dense fog and low clouds covered much of the southern and central mountains. A few accidents occurred as a result of the low visibility.

Rowan County

3 E Rockwell **25** **1520EST** **0** **0** **Thunderstorm Wind (G50)**

Numerous trees were blown down and an awning was blown off a mobile home.

Mecklenburg County

Matthews **25** **1528EST** **0** **0** **Thunderstorm Wind (G50)**

A tree was blown down on a car.

Mecklenburg County

Pineville **25** **1539EST** **0** **0** **Thunderstorm Wind (G50)**

Trees were downed on Main and College Streets.

Mecklenburg County

Charlotte **25** **1600EST** **0** **0** **Thunderstorm Wind (G50)**

Several trees were blown down and a roof was damaged in South Charlotte.

A line of thunderstorms, broken into a couple of short line segments, crossed the Charlotte metro area late in the afternoon. A couple storms became severe and produced damaging winds.

NCZ053

Buncombe

26 **1100EST** **0** **0** **Gusty Wind**

Gusty winds behind a cold front caused at least one tree to fall on a car in Asheville. Minor traffic problems occurred until the road was cleared.

NORTH DAKOTA, Central and West

La Moure County

12 N Verona **02** **1133CST** **0** **0** **Hail (0.75)**

Dickey County

7 NNE Oakes **02** **1438CST** **0** **0** **Hail (0.75)**

Divide County

2 E Ambrose **05** **0001CST** **0** **0** **Hail (1.00)**

Bottineau County

4 W Westhope **05** **0930CST** **0** **0** **Hail (1.25)**

Adams County

Hettinger Arpt **05** **1803CST** **0** **0** **Thunderstorm Wind (G52) ^M**

McLean County

Underwood **05** **2002CST** **0** **0** **Hail (1.25)**

McLean County

2 N Underwood **05** **2005CST** **0** **0** **Hail (0.75)**

Morton County

5 NW New Salem **05** **2148CST** **0** **0** **Hail (1.00)**

Cooperative observer reported 50 to 60 mph wind gust with this storm.

NORTH DAKOTA, East

Barnes County

6 S Fingal **02** **1040CST** **0** **0** **Hail (1.00)**

Cass County

8 NE Alice **02** **1053CST** **0** **0** **Hail (1.00)**

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
NORTH DAKOTA, East									
Cass County 4 N Embden	02	1105CST			0	0			Hail (0.88)
Ransom County 3 W Ft Ransom	02	1133CST			0	0			Hail (0.75)
Barnes County 2 SW Lucca	02	1145CST			0	0			Hail (0.88)
Cass County 4 W Alice	02	1155CST			0	0			Hail (0.88)
Ransom County 1 E Enderlin	02	1245CST			0	0			Hail (1.00)
Sargent County 8 NW Gwinner	02	1250CST			0	0			Hail (0.75)
Ransom County 15 N McLeod	02	1320CST			0	0			Hail (0.75)
Richland County 20 W Christine	02	1330CST			0	0			Hail (0.75)
Cass County 1 E Horace	02	1352CST			0	0			Hail (0.75)
Cass County 4 W Kindred	02	1355CST			0	0			Hail (0.75)
Cass County 5 S Fargo	02	1410CST			0	0			Hail (1.00)
Cass County 5 S Fargo Arpt	02	1410CST			0	0			Hail (0.75)
Sargent County 13 E Gwinner	02	1445CST			0	0			Hail (1.00)
Ransom County 8 S Lisbon	02	1450CST			0	0			Hail (1.00)
Ransom County 4 SW Elliott	02	1455CST			0	0			Hail (1.00)
Ransom County 5 SW Lisbon	02	1505CST			0	0			Hail (1.75)
Ransom County Lisbon	02	1505CST			0	0			Hail (0.75)
Cass County Fargo	02	1630CST			0	0			Flash Flood
Street flooding was reported in Fargo.									
Ransom County Lisbon	02	1700CST			0	0			Flash Flood
Street flooding was reported in Lisbon.									
Richland County 14 W Walcott	02	1730CST			0	0			Flash Flood
A partial washout of a service road was reported.									
Benson County Warwick	04	1400CST			0	0			Flash Flood
Rural roads were flooded by the heavy rain.									
Eddy County Hamar	04	1400CST			0	0			Flash Flood
Flooding was reported in Hamar.									
Nelson County 3 W Tolna	04	1500CST			0	0			Flash Flood
Heavy rain washed out some rural roads.									
Nelson County Lakota	05	1515CST			0	0	1K		Thunderstorm Wind
Large branches were blown down and a grain elevator was damaged.									
Walsh County 8 NE Ardoch	05	1738CST			0	0			Hail (0.75)
OHIO, East									
Tuscarawas County Zoar	20	1830EST			0	0	5K		Thunderstorm Wind
Thunderstorm winds downed several large trees along County Road 212 and Dover Zoar Road in the vicinity of Zoar.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OHIO, East									
Coshocton County 1 N Coshocton	20	1900EST			0	0	1K		Thunderstorm Wind
Thunderstorm winds downed a large tree.									
Coshocton County 2 W Coshocton	20	2030EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a few large trees onto County Road 58.									
Carroll County Leesville	20	2130EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a few large trees.									
Guernsey County 1 N North Salem	20	2130EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a few large trees onto Old Twenty One Road.									
Columbiana County Salem	20	2135EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a few large trees.									
OHIO, North									
Cuyahoga County Parma	15	0630EST			0	0			Hail (0.75)
Dime sized hail covered the ground.									
Hancock County Findlay	20	1730EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a tree and one large limb.									
Lucas County Toledo	20	1730EST			0	0	30K		Thunderstorm Wind
Thunderstorm winds downed many trees in Toledo. One of the trees landed on a moving car. The occupants of the car were unharmed. A house was also slightly damaged by a fallen tree.									
Stark County Navarre	20	1810EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed one tree and one large limb.									
Sandusky County Fremont	20	1830EST			0	0	30K		Thunderstorm Wind
Thunderstorm winds destroyed a small barn and damaged a small building approximately 10 miles northeast of Fremont.									
Marion County Prospect to Marion	20	1840EST			0	0	10K		Thunderstorm Wind
Thunderstorm winds downed two trees in Marion and a tree and a large limb in Prospect.									
Huron County Countywide	20	1900EST 1915EST			0	0	50K		Thunderstorm Wind
Thunderstorm winds downed trees in Bellevue, Wakeman, Clarksfield and Norwalk. A cinder block garage was blown down and two signs damaged in Norwalk.									
Huron County Monroeville	20	1905EST 1907EST	1.5	100	0	1	250K	15K	Tornado (F2)
A tornado touched down north of Monroeville along State Route 99 near Mead Road. The tornado traveled east for 2.5 miles along State Route 113 and dissipated in Erie County near the corner of Higbee and Livengood Roads. The tornado was not on the ground the entire length and had a damage path approximately 100 yards in width. A mobile home, small outbuilding, barn, garage and a camper were destroyed in Huron County. An adult male inside the mobile home was slightly injured. The damage path of the tornado was clearly visible through corn fields and debris from the destroyed buildings was strewn along the path and in some case thrown well outside the path. Ears of corn were found shucked, apparently by the tornado. Several hundred trees were downed along the damage path.									
Erie County Milan	20	1907EST 1909EST	1	100	0	0	175K	10K	Tornado (F2)
A tornado touched down north of Monroeville in Huron County and traveled east along State Route 113 into southern Erie County. The tornado dissipated near the corner of Higbee and Livengood Roads after destroying a farm house. The destroyed house was ripped from its foundation, moved 40 feet and knocked over. A second house and a small barn were also slightly damaged. The tornado traveled approximately one mile in Erie County and had a damage path about 100 yards wide. Debris from the homes was thrown well outside the damage path which was clearly visible through corn fields. Ears of corn were shucked, apparently by the tornado and some ears had many kernels removed. Several dozen trees were downed along the damage path.									
Ottawa County Port Clinton to Marblehead	20	1920EST 1930EST			0	0	40K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OHIO, North

Thunderstorm winds downed many trees and large limbs. Two cars were damaged by fallen trees, one each in Port Clinton and Marblehead.

Morrow County Mt Gilead

20 1930EST 0 0 75K Thunderstorm Wind

Thunderstorm winds damaged two homes 8 miles northeast of Mt. Gilead. One of the homes lost a roof and had a porch destroyed. The second house sustained minor roof damage. Many trees were downed in the northeastern corner of the county and two cars were crushed by fallen trees.

Knox County Mt Vernon

20 1951EST 10 75 0 0 150K 35K Tornado (F1)
2001EST

A tornado moved through the very southern part of Knox County. The damage path was nearly 10 miles in length, ranged from 50 to 100 yards in width and moved through Miller and Morgan Townships. The tornado lifted in Morgan Township just east of Morgan Center Road after downing many large trees and flattening sections of several large corn fields. Minor damage occurred to four homes and a barn was destroyed. A small storage shed was also damaged and several dozen trees and power poles were downed.

Holmes County Countywide

20 2030EST 0 0 15K Thunderstorm Wind

Thunderstorm winds downed a few trees. A mobile home was slightly damaged near Millersburg.

Medina County Countywide

20 2030EST 0 0 10K Thunderstorm Wind

Thunderstorm winds downed a few trees across the county.

Wayne County Countywide

20 2035EST 0 0 15K Thunderstorm Wind

Thunderstorm winds downed a few trees across the county.

Lake County Countywide

20 2055EST 0 0 25K Thunderstorm Wind

Thunderstorm winds downed many trees across the county.

Portage County Countywide

20 2100EST 0 0 25K Thunderstorm Wind

Thunderstorm winds downed trees in Ravenna, Rootstown, Aurora, Mantua, Brimfield and Randolph.

Stark County Countywide

20 2130EST 0 0 10K Thunderstorm Wind

Thunderstorm winds downed a few trees across the county.

Mahoning County Countywide

20 2150EST 0 0 25K Thunderstorm Wind

Thunderstorm winds downed trees throughout the county.

Wood County West Millgrove

23 1605EST 0 0 15K Thunderstorm Wind

Thunderstorm winds downed a tree and several power poles three miles south of West Millgrove.

Seneca County Amsden

23 1615EST 0 0 2K Thunderstorm Wind

Thunderstorm winds downed three large tree limbs.

Seneca County Bloomville

23 1720EST 0 0 Thunderstorm Wind (G52)

Trained spotters estimated thunderstorm winds at 60 mph.

OHIO, Northwest

Van Wert County 2 N Ohio City

20 1645EST 0 0 0 Thunderstorm Wind

Large tree blown down. Power lines down as well.

Putnam County Kalida

20 1700EST 0 0 0 Thunderstorm Wind (G65) ^M

Allen County Lima

20 1725EST 0 0 0 Thunderstorm Wind

Large tree blown down.

Allen County Beaverdam

20 1730EST 0 0 0 Thunderstorm Wind

Trees blown down in town.

OHIO, Southeast

Perry County New Lexington

20 2050EST 0 0 Hail (1.00)

Vinton County Creola

20 2100EST 0 0 2K Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property Crops		Character of Storm
Killed	Injured	Property	Crops							

OHIO, Southeast

Jackson County Jackson	Numerous tree limbs of 3 to 5 inches in diameter were snapped off.									
	20	2130EST			0	0	2K			Thunderstorm Wind
Morgan County Mc Connelsville to Malta	Large trees and branches were knocked down.									
	20	2130EST			0	0	3K			Thunderstorm Wind
Athens County 2 E Athens	Several trees were blown down.									
	20	2140EST			0	0	2K			Thunderstorm Wind
Meigs County Rutland to Burlingham	Trees fell across roads.									
	20	2150EST			0	0	2K			Thunderstorm Wind
Gallia County Rio Grande	Scattered locations had trees blown down across secondary roads.									
	20	2200EST			0	0	3K			Thunderstorm Wind
Meigs County Letart Falls	Scattered locations had large trees uprooted or large branches snapped off.									
	20	2200EST			0	0	25K			Thunderstorm Wind
Washington County 4 N Marietta to 5 NE Marietta	A roof was blown off a barn and a greenhouse was damaged.									
	20	2210EST			0	0	2K			Thunderstorm Wind

State Routes 821 and 26 were blocked by fallen trees.

A squall line formed ahead of a cold front, consisting of fast moving thunderstorm cells.

OHIO, Southwest

Pickaway County 1 SW South Bloomfield	02	1345EST 1350EST			0	0	25K			Thunderstorm Wind (G50)
	Thunderstorm winds caused minor damage to 2 homes and caused damage to yard equipment.									
Fairfield County 4 SW Baltimore	02	1415EST 1420EST			0	0	5K			Thunderstorm Wind (G50)
	Thunderstorms downed trees.									
Hamilton County 1 W Mack	02	1820EST			1	1				Lightning
	Lightning struck a tree at a catered birthday party, killing one and injuring another restaurant worker. M21UT									
Hocking County Logan to Rockbridge	20	1445EST 1455EST			0	0	5K			Thunderstorm Wind (G50)
	Trees down in several locations across the county.									
Mercer County Countywide	20	1645EST 1715EST			0	0	5K			Thunderstorm Wind (G50)
	Numerous large limbs downed across the county.									
Preble County 3 S Eaton	20	1730EST			0	0				Thunderstorm Wind (G55) ^M
	A 65 mph wind gust was reported by a spotter.									
Darke County Greenville	20	1735EST			0	0	10K			Thunderstorm Wind (G50)
	Large limbs and power lined knocked down.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>OHIO, Southwest</u>									
Miami County									
Countywide	20	1740EST 1815EST			0	0	5K		Thunderstorm Wind (G50)
Numerous trees knocked down across the county.									
Auglaize County									
St Johns	20	1745EST			0	0	15K		Thunderstorm Wind (G50)
Numerous large limbs downed, some of which fell on homes.									
Butler County									
Trenton	20	1800EST 1805EST			0	0	50K		Thunderstorm Wind (G50)
Numerous trees downed and some damage occurred to buildings.									
Warren County									
Carlisle to Franklin	20	1803EST 1810EST			0	0	450K		Thunderstorm Wind (G60)
Numerous large trees were knocked down and significant damage occurred to several homes.									
Montgomery County									
Centerville to Dayton	20	1812EST			0	0	15K		Thunderstorm Wind (G53) ^M
Thunderstorm winds gusted to 63 mph in Dayton knocking down many trees. Trees were also knocked down in Centerville.									
Logan County									
Big Spgs	20	1815EST 1820EST			0	0	5K		Thunderstorm Wind (G50)
Numerous large limbs knocked down along Rte. 274.									
Greene County									
4 SW Xenia to 1 N Wilberforce	20	1818EST 1826EST	9	500	1	100	15M		Tornado (F4)



Narrow path of low end F4 damage in Xenia, Ohio.

A violent tornado that moved at 65 mph hit the town of Xenia for the second time in 26 years damaging some of the same areas that were hit in 1974. Along the path of the tornado, around 250 homes were either damaged or destroyed, over 40 businesses were damaged or destroyed including the local Wal Mart, Kroger, and Tire Discounters, and 6 churches were damaged. A strip mall was nearly destroyed, cars were thrown from the Highway 35 bypass into ditches, 4 semi-trailers were thrown up to 400 yards, and most of the buildings were damaged or destroyed at the Greene county fairgrounds. In Sugarcreek Township, which is to the southwest of Xenia, an additional 14 houses and 3 barns were damaged and some crops were destroyed on a narrow path. Over 10,000 residents were without power for at least 1 day. M63VE

Champaign County

Terre Haute

20	1820EST 1825EST			0	0	10K	Thunderstorm Wind (G50)
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Numerous trees and power lines downed.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OHIO, Southwest									
Clark County Enon	20	1825EST 1830EST			0	0	5K		Thunderstorm Wind (G50)
Numerous trees down across the county, especially around Enon.									
Warren County 3 W Morrow to Waynesville	20	1842EST			0	0	5K		Thunderstorm Wind (G51) ^M
Winds were measured at 60 mph just west of Morrow and trees were knocked down in Waynesville.									
Clermont County 2 NE Miamiville	20	1845EST 1850EST			0	0	5K		Thunderstorm Wind (G50)
Numerous trees downed by thunderstorm winds.									
Hamilton County Cincinnati	20	1845EST 1855EST			0	0	10K		Thunderstorm Wind (G50)
Trees downed across Cincinnati.									
Madison County Big Plain	20	1855EST 1900EST			0	0	5K		Thunderstorm Wind (G50)
Trees downed.									
Union County Milford Center	20	1855EST 1900EST			0	0	50K		Thunderstorm Wind (G60)
Numerous trees were knocked down and some damage occurred to homes and businesses.									
Warren County Morrow	20	1855EST 1905EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down by thunderstorm winds.									
Fayette County Jeffersonville	20	1900EST			0	0	5K		Thunderstorm Wind (G50)
Numerous trees and large limbs knocked down.									
Clinton County Blanchester	20	1905EST 1910EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down.									
Franklin County Countywide	20	1910EST 1930EST			0	0	10K		Thunderstorm Wind (G50)
Numerous trees downed across the county.									
Fayette County Countywide	20	1930EST 1940EST			0	0	5K		Thunderstorm Wind (G50)
Thunderstorms knocked trees across the county, especially in the northwestern part of the county.									
Delaware County 1 S Harlem to 4 NE Harlem	20	1931EST 1936EST	5	100	0	2	1M		Tornado (F2)
A tornado touched down in the southeastern part of the county, along Harlem road and then raced rapidly eastward to the Licking county line. Two high tension power line towers were bent over and 14 houses were either damaged or destroyed.									
Licking County 4 NW Johnstown to 2 NE Homer	20	1936EST 1950EST	16	100	0	0	1M	100K	Tornado (F2)
A tornado tracked out of Delaware county across the northwestern part of the county and then continued into Knox county. The storm lifted briefly in spots but maintained a 25 mile track across the three counties, mainly in rural areas. Eleven homes received major damage and 4 received minor damage. Several barns and outbuildings were also destroyed. Twelve buildings at the Buckeye Egg Company were destroyed, trapping one million chickens inside.									
Brown County Fayetteville	20	1945EST 1950EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down.									
Clermont County Batavia	20	2000EST 2010EST			0	0	5K		Thunderstorm Wind (G50)
Numerous trees downed.									

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OHIO, Southwest									
Highland County Samantha	20	2000EST 2005EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down.									
Brown County Higginsport	20	2010EST 2020EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down along US 52.									
Fairfield County Countywide	20	2020EST 2030EST			0	0	10K		Thunderstorm Wind (G50)
Numerous trees knocked down across the county.									
Pickaway County Circleville	20	2020EST 2030EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down by thunderstorm winds.									
Ross County Chillicothe	20	2030EST 2040EST			0	0	10K		Thunderstorm Wind (G50)
Numerous trees downed.									
Adams County Peebles	20	2045EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down by thunderstorm winds.									
Pike County Countywide	20	2045EST 2105EST			0	0	10K		Thunderstorm Wind (G50)
Trees downed in several locations across the county.									
Scioto County Wheelersburg	20	2055EST 2100EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down by thunderstorm winds.									
Hocking County South Bloomingville	20	2111EST 2115EST			0	0	5K		Thunderstorm Wind (G50)
Trees knocked down across the southern part of the county.									
Clermont County Amelia to Batavia	23	1527EST 1550EST			0	0	10K		Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees, some of which fell on cars.									
Pickaway County Duvals	23	1615EST	0.1	25	0	0			Tornado (F0)
A tornado made a brief touchdown in a field, causing no damage.									
Fairfield County Lancaster	23	1645EST 1650EST	0.5	50	0	0	30K		Tornado (F0)
A tornado made a few brief touchdowns in Lancaster destroying a garage and knocking down some trees and power lines.									
Fairfield County 2 NE Bremen	23	1715EST	0.2	50	0	0	150K		Tornado (F1)
A tornado touched down in the eastern part of the county causing damage to a home and garage.									
Logan County Bellefontaine	23	1715EST 1830EST			0	0	50K		Flood
Heavy rainfall caused flooded roads in Bellefontaine. Also, part of the road and a bridge were washed out on Township Road 151.									
Fairfield County Countywide	23	1720EST 1915EST			0	0	50K		Flood
Several hours of heavy rainfall caused flooding that washed out roads and culverts.									
Franklin County Countywide	23	1720EST 1915EST			0	0	20K		Flood
Heavy rainfall caused numerous roads to be flooded and closed.									
Champaign County Countywide	23	1730EST 1915EST			0	0	10K		Flood

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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OHIO, Southwest

Roads flooded across the county, especially in the northern and western parts of the state.

Delaware County 1 W Berkshire

23 1752EST 0 0 10K Flood
Heavy rainfall caused flooded roads.

Union County 1 N Plain City

23 1752EST 0 0 10K Flood
Heavy rainfall flooded Highway 42 across the southern part of the county.

Delaware County 3 SW Galena

23 1830EST 0 0 50K Thunderstorm Wind (G50)
1835EST
Thunderstorm winds caused damaged to a home and 2 houses under construction.

OKLAHOMA, Eastern

Le Flore County 4 NNE Pocola

03 1552CST 0 0 3K Thunderstorm Wind
Thunderstorm winds blew down numerous power lines.

Craig County Vinita

23 0056CST 0 0 Hail (0.88)

Delaware County 5 W Grove

23 0120CST 0 0 Hail (0.75)
Dime size hail was reported on Monkey Island.

Cherokee County Lost City

23 1515CST 0 0 Hail (1.00)

Cherokee County 3 NE Tahlequah

23 1542CST 0 0 Hail (0.75)

Cherokee County 3 NE Tahlequah

23 1542CST 0 0 Thunderstorm Wind (G52)

Cherokee County 1 SE Eldon

23 1552CST 0 0 0.10K Thunderstorm Wind
Thunderstorm winds blew down large tree limbs.

Pittsburg County Ashland

23 1630CST 0 0 0.10K Thunderstorm Wind
Thunderstorm winds blew down large tree limbs.

Le Flore County 5 E Panama

23 1638CST 0 0 Thunderstorm Wind (G56)

OKLAHOMA, Extreme Southeast

NONE REPORTED.

OKLAHOMA, Panhandle

NONE REPORTED.

OKLAHOMA, Western, Central and Southeast

OKZ025

Oklahoma

02 1100CST 1 0 Excessive Heat

An 85-year old man was found dead in his Oklahoma City home on north Hudson due to excessive heat. Reportedly, the heater was accidentally turned on when intending to turn on the air conditioner.
M85PH

Johnston County Coleman

02 1345CST 0 0 2K Thunderstorm Wind
Outbuildings were damaged, and trees were downed.

Carter County North Portion

08 0700CST 0 0 100K Wild/Forest Fire
19 1100CST

Garvin County South Portion

08 0700CST 0 0 100K Wild/Forest Fire
19 1100CST

Murray County West Portion

08 0700CST 0 0 800K Wild/Forest Fire
19 1100CST

A very large wild fire started near the Carter/Murray county line on the 8th and spread northward into the Arbuckle Mountains in western Murray County, eventually reaching southern Garvin County. Approximately 11,500 acres of land burned, most in the Arbuckles, which took almost two weeks to extinguish. An estimated 6 homes and 1 business were also destroyed.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
Killed	Injured	Property							

OKLAHOMA, Western, Central and Southeast

Carter County

Lone Grove **10** **0630CST** **0** **0** **3K** **Thunderstorm Wind**
An RV shed was blown over, and a chain-link fence was damaged.

Cotton County

6 S Randlett **11** **1655CST** **0** **0** **0.10K** **Thunderstorm Wind**
Large trees were damaged.

Canadian County

12 SW El Reno **11** **1658CST** **0** **0** **Thunderstorm Wind (G52)**

Canadian County

6 NW El Reno **11** **1705CST** **0** **0** **Hail (0.75)**

Cotton County

5 WSW Walters **11** **1705CST** **0** **0** **2K** **Thunderstorm Wind**
Four power poles were downed.

Cotton County

4 W Walters **11** **1705CST** **0** **0** **1K** **Thunderstorm Wind**
A roof made of tin was blown off a barn.

Logan County

9 S Guthrie to **19** **1200CST** **0** **0** **750K** **Wild/Forest Fire**
3 S Guthrie **2200CST**

A large wild fire, believed to be intentionally set, developed about 9 miles south of Guthrie and consumed 35 homes before being extinguished 3 miles south of Guthrie. No injuries were reported.

Kiowa County

2 W Hobart **22** **1835CST** **0** **0** **2K** **Thunderstorm Wind**
Power poles were downed.

Kiowa County

Hobart **22** **1851CST** **0** **0** **Hail (1.00)**

Kiowa County

6 W Gotebo **22** **1903CST** **0** **0** **Hail (0.88)**

Kiowa County

Gotebo **22** **1916CST** **0** **0** **Hail (0.88)**

Coal County

5 NW Centrahoma **23** **1610CST** **0** **0** **Hail (0.75)**

Atoka County

Wardville **23** **1655CST** **0** **0** **0.01K** **Thunderstorm Wind (G52)**
Trees were damaged.

OREGON, Central and East

NONE REPORTED.

OREGON, Northwest

ORZ011

Northern Oregon Cascades

30 **1800PST** **0** **0** **1M** **Flood**
2200PST

Heavy rain, estimated at 3 inches in places, plus glacial melt associated with abnormally warm temperatures, acted together to trigger floods and rock and mud slides on the western slopes of Mount Hood. Parts of Oregon Highway 35 were closed due to slides and washouts. The Oregon Department of Transportation estimated it will take up to one month to make the repairs at an estimated cost of one million dollars.

OREGON, Southeast

NONE REPORTED.

OREGON, Southwest

ORZ029>031

Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County

05 **1404PST** **0** **0** **Extreme Cold**
06 **0800PST**

See below.

Based on forecast low temperatures, a Frost Warning was issued for the above zones. Reported low temperatures were mostly in the lower to middle 30s, and temperatures below 30 degrees appeared to be isolated. No frost was reported, but it likely did form. Skies cleared and the winds became calm during the night.

Curry County

Countywide **17** **1145PST** **0** **0** **Wild/Forest Fire**
20 **1625PST**

See below.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Southwest

Josephine County Countywide

17	1145PST	0	0	Wild/Forest Fire
20	1625PST			

See below.

A developing strong offshore flow event necessitated the issuing of a Red Flag Warning at the above listed times for fire weather zones 618/619/620. This included all of Curry and Josephine counties (except for the extreme southern portion), and the extreme western portion of Jackson county. The expected conditions included ridgetop winds in excess of 20 mph and minimum relative humidity values near 15%.

This event verified in spades as a major offshore event brought record heat (101 degrees at Brookings) to the southern Oregon coast. The Red Mound RAWS reported winds exceeding 20 mph from 17/2316 LST to 18/1216 LST (except for 3 observations), from 18/2316 LST to 19/0216 LST, and from 19/2116 LST to 20/1016 LST. The minimum relative humidity at the Red Mound RAWS during the warning period was 10%. The peak gust was 47 mph.

Below the Red Mound RAWS at Brookings, the reported high temperatures were 94 on 9/17 (record high), 101 on 9/18 (record high), 95 on 9/19, and 98 on 9/20 (record high). The peak reported winds were 26 mph sustained and 38 mph gusts.

While not as dramatic as the above data, winds at the Sexton Summit ASOS and the Onion Mountain Lookout RAWS also exceeded 20 mph for stretches of time during the warning period.

ORZ029>031

Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County

21	1505PST	0	0	Extreme Cold
2136PST				

See below.

A Frost Warning was issued for the above areas at 1505 PDT but it was cancelled at 2136 PDT because of forecast winds and sky cover. Low temperatures were mostly in the upper 30s to lower 40s...with some higher elevation stations in the lower 30s. No frost reports were received, but some patchy frost likely did develop. Overall, it appears that cancelling the warning was a good call.

ORZ029>031

Klamath Basin - Northern & Eastern Klamath County & Western Lake County - Central & Eastern Lake County

22	1724PST	0	0	Extreme Cold
23	0800PST			

See below.

A Frost Warning was issued for the above areas at the above times. Reported low temperatures were in the 20s. It appears that this was the "killing frost" for the fall season. One station, Klamath Falls, verified a freeze warning (the low was 15 degrees below normal), but temperatures this far below normal were isolated.

PACIFIC

GUZ005>008

Northern Marianas - Guam - Saipan - Rota

05	0000SST	0	0	600K	50K	Tropical Storm
08	0000SST					

In Tinian some banana trees were reported damaged by gusty winds.

Tropical Storm Saomai passes close to the Mariana Islands. Saomai developed in the monsoon trough east of Guam on September 1. It developed quickly and became a tropical storm on the 2nd and a typhoon on the 4th. Increased vertical wind shear weakened Saomai to tropical storm strength on the 5th. The storm was heading west and it appeared that it would move north of Tinian. The tropical storm then became captured in the larger circulation of a monsoon gyre that had formed over the region. Rather than continue to move west the tropical storm moved south to just east of Guam on the 6th. It then made a loop and started to move northwestward and passed close to Tinian and Saipan. As it was moving away from the Marianas Saomai increased strength and became a typhoon.

Even though Saomai did not make landfall on any island in Marianas, rain bands associated with the tropical storm moved over the area. Rainfall amounts across the Mariana Islands depending on which area of the island remained under rainbands the longest.

Greatest 24 hour rainfall totals:

3.95 inches of rain fell at the National Weather Service Office in Tiyan. (midnight on the 6th to midnight on the 7th)

Automated observing on Guam from 1000 local on the 6th to 1000 on the 7th:

Apra Harbor station observed 7.84 inches
Mangilao observed 6.41 inches.
Merizo observed 3.11 inches.

Fisher and Porter rain gages on Guam observed high amounts

From 0600 on the 6th to 0600 on the 7th the Inarajan gage measured 7.60 inches
From 0500 on the 6th to 0500 on the 7th the Fena Lake gage showed 8.80 inches and Piti gage showed 9.90 inches.

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PACIFIC

In Saipan 2.42 inches of rain were recorded between 2200 on the 6th to 2200 on the 7th.

Wind reports:

Guam

At the National Weather Service Office in Tiyan the highest observed wind gust was 39mph at 0122 on the 6th. The highest sustained wind was 25 mph observed at 0854 on the 6th. The Navy COMNAVMAR the highest observed wind gust was 66 mph at 0231 on the 7th.

The highest sustained wind was 45 mph observed at 0215 on the 6th.

Saipan

At the International Airport the highest observed wind gust was 41mph at 1419 on the 7th. The highest sustained wind was 33 mph observed at 1411 on the 7th. Both of these observations are the last of several occurrences.

Rota

At the Airport the highest observed wind gust was 35mph at 0650 on the 7th. The highest sustained wind was 23 mph at 1153 on the 7th.

Tinian

At the Airport the highest observed wind gust was 29mph at 0850 on the 7th. The highest sustained wind was 21 mph at 1650 on the 7th.

Damage reported from Saomai

On Guam power was knocked out briefly in isolated areas. Gustly winds downed two old wooden telephone poles along Route 17 in Windward Hills. Localized minor flooding in poor drainage areas. Major flooding occurred in Merizo where a poorly designed storm drain

clogged up with debris. This resulted in flooding of six houses. At the International Airport two flights were delayed and one cancelled due to the storm. In Saipan there were isolated power outages and minor flooding in poor drainage areas. In Tinian some banana trees were reported damaged.

GUZ004

Wake Island

19 0000SST

0

0

50K

20K

Hurricane

21 0000SST

Minor damage to vegetation was reported.

A circulation developed on the monsoon trough just east of the dateline. This system persisted and it crossed the dateline on the 15th. On the 17th the system gained strength to become a tropical depression and then further intensified to Tropical Storm Shanshan later in the day. Shanshan became a typhoon on the 19th as it passed to the east of Wake Island. Maximum sustained winds observed on Wake Island was 45 mph with a maximum gust of 56 mph. Minor damage to street lights and vegetation was reported.

Guam

Central Portion

21 1038SST

0

0

Funnel Cloud

1054SST

A funnel cloud was observed from the National Weather Service Office from 1038 to 1054. The funnel cloud was seen south of the station.

Guam

Countywide

25 1000SST

0

0

Urban/Sml Stream Fld

1600SST

Daytime heating combined with light winds resulted in showers and thunderstorms over Guam. These slow moving showers and thunderstorms caused brief localized flooding in poor drainage areas.

Guam

Central Portion to Andersen Afb

26 1000SST

0

0

Urban/Sml Stream Fld

1500SST

Daytime heating combined with light winds resulted in showers and thunderstorms mainly over northern Guam. These slow moving showers and thunderstorms caused brief localized flooding in poor drainage areas.

PENNSYLVANIA, Central

Cumberland County

Mechanicsburg

01 1700EST

0

0

50K

Flash Flood

1900EST

Eight homes and one apartment was flooded in Pennsboro Township.

Perry County

Duncannon

01 1700EST

0

0

10K

Flash Flood

1900EST

Heavy rains flooded streets. Route 11/15 was flooded.

Storm Data and Unusual Weather Phenomena

September 2000

		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	September 2000	
Location	Date				Killed	Injured	Property	Crops	Character of Storm
<u>PENNSYLVANIA, Central</u>									
Adams County Biglerville	01	1900EST 2200EST			0	0	20K		Flash Flood
4.1" of rain fell in 3 hours. Vehicles were stranded.									
York County North Portion	01	1900EST 2100EST			0	0	5K		Flash Flood
Heavy rains caused small streams and roads to flood.									
Lancaster County North Portion	03	1400EST 1600EST			0	0	5K		Flash Flood
Heavy rains caused small streams to flood and poor drainage.									
Lancaster County Lancaster	12	0256EST			0	0	20K		Lightning
Early morning lightning bolts struck a city elementary school and church. The lightning strike hit a chimney, shot through the roof through the attic, and into a fourth grade classroom. The strike took out one side of the chimney, scattering bricks on the roof. Another lightning strike exploded one of the top-most stone turrets, sending heavy chunks onto the street and sidewalk below. When the 500 lb. structure exploded, it also left holes in the roof, allowing substantial amounts of water to soak into the interior. Debris and plaster-soaked water filled the pipes in the church's 70 year old Moeller organ.									
Huntingdon County Mc Aleys Fort	12	1455EST			0	0	2K		Thunderstorm Wind
A couple of trees were down along Route 26, about 2 miles west of McAlevy's Fort.									
Adams County Fairfield	14	1930EST			0	0			Hail (0.75)
York County York	14	2100EST 2330EST			0	0	10K		Flash Flood
Several streets were blocked and cars were stranded.									
Dauphin County Middletown	19	1700EST 2000EST			0	0	10K		Flash Flood
Heavy rains caused small stream poor drainage.									
York County York	19	1700EST 2000EST			0	0			Flash Flood
Heavy rains caused small stream and drainage flooding.									
<u>PENNSYLVANIA, East</u>									
Philadelphia County Countywide	03	1600EST 1800EST			0	0		0	Flash Flood
Thunderstorms with torrential downpours caused considerable urban and poor drainage flooding within Philadelphia as well as flooding of some of the smaller streams within the city. Storm totals included 3.86 inches at the Northeast Philadelphia Airport and 2.72 inches at the Philadelphia International Airport. No serious injuries were reported.									
Bucks County Countywide	14 15	2300EST 0200EST			0	0		0	Heavy Rain
Chester County Countywide	14 15	2300EST 0200EST			0	0		0	Heavy Rain
Delaware County Countywide	14 15	2300EST 0200EST			0	0		0	Heavy Rain
Montgomery County Countywide	14 15	2300EST 0200EST			0	0		0	Heavy Rain
Philadelphia County Countywide	14 15	2300EST 0200EST			0	0		0	Heavy Rain

Thunderstorms preceding and accompanying a slow moving cold front produced a few hours of heavy rain across southeastern Pennsylvania around midnight EDT on the 15th. Poor drainage flooding occurred, especially in low-lying areas. But, no serious flooding or injuries were reported. Storm totals included 2.00 inches in Wynnewood (Montgomery County), 1.92 inches in Crum Creek (Delaware County) and Neshaminy Falls (Bucks County), 1.82 inches at the Northeast Philadelphia Airport, 1.78 inches at the Philadelphia International Airport, 1.67 inches in West Chester (Chester County), 1.40 inches in Chadds Ford (Delaware County) and

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

PENNSYLVANIA, East

1.39 inches at Valley Forge (Montgomery County).

Delaware County

Lansdowne

14 2345EST

0

0

0

Lightning

Lightning struck the roof of an apartment building in Lansdowne. The ensuing fire engulfed the roof of the building. Several residents were evacuated and found places to stay with friends and relatives. No serious injuries were reported.

Monroe County

Scot Run

15 1625EST

0

0

Hail (1.00)

Bucks County

Warrington to

Warminster

19 2000EST

0

0

Flood

2200EST

Montgomery County

Hatboro

19 2000EST

0

0

25K

Flood

2200EST

The remnants of what once was Hurricane Gordon dropped heavy rain across southeast Pennsylvania during the late afternoon and early evening of the 19th. It caused poor drainage flooding in low-lying areas. The heaviest rain fell along the Montgomery/Bucks County border near the Willow Grove NAS and also caused small stream flooding. The rain was not unusually heavy, but came after what was already an unseasonably wet September and summer. In Bucks County, stream flooding was reported in the Little Neshaminy Creek Basin in Warrington and Warminster Townships. Several roads were flooded. In Montgomery County, the Pennypack Creek overflowed and damaged parked cars at the Pennypack Elementary School in Hatboro. Flood waters also covered the lobby, dining room and kitchen floors of the Old Mill Inn. In Horsham Township, homes on County Line Road were flooded. One home had four feet of water in its garage. Storm totals included 2.64 inches at the Willow Grove NAS (Montgomery County), 2.60 inches in Southampton (Bucks County), 2.46 inches at King of Prussia (Montgomery County), 2.22 inches in Reading (Berks County), 2.18 inches at Northeast Philadelphia Airport, 1.69 inches at Neshaminy Falls (Bucks County), 1.66 inches in Exton (Chester County) and 1.57 inches in Furlong (Bucks County). No serious injuries were reported.

Chester County

Countywide

25 1300EST

0

0

Heavy Rain

26 0700EST

Delaware County

Countywide

25 1300EST

0

0

Heavy Rain

26 0700EST

Philadelphia County

Countywide

25 1300EST

0

0

Heavy Rain

26 0700EST

A slow moving low pressure system helped drop heavy rain across extreme southeast Pennsylvania. Storm totals averaged between 2 and 3 inches. The heaviest rain fell during the evening of the 25th. While the rain was heavy, hourly totals did not exceed 0.50 inches and this kept the major streams, creeks and rivers within their banks. Nevertheless there was considerable urban, low-lying area and poor drainage flooding. Storm totals included 2.81 inches at the Northeast Philadelphia Airport, 2.75 inches in Crum Creek (Delaware County), 2.70 inches in Downingtown (Chester County), 2.63 inches in West Chester (Chester County), 2.42 inches in Exton (Chester County), 2.37 inches at the Philadelphia International Airport and the Franklin Institute within Philadelphia, 2.27 inches in Chadds Ford (Delaware County), 2.10 inches in Wynnewood (Montgomery County), 2.02 inches in Glenmoore (Chester County), 1.97 inches in Valley Forge (Chester County), 1.83 inches in Neshaminy Falls (Bucks County), 1.61 inches in Doylestown (Bucks County) and 1.42 inches in Pottstown (Montgomery County). The low pressure system responsible for the heavy rain, traveled from the lower Tennessee Valley the morning of the 25th to just east of Wallops Island, Virginia the morning of the 26th. By the evening of the 26th, the low was well offshore.

PAZ067>071

Chester - Montgomery - Bucks - Delaware - Philadelphia

30 2359EST

0

0

Unseasonably Wet

September 2000 continued the trend of unseasonably wet weather for southeast Pennsylvania. The heaviest rainfall totals were along the Delaware River and New Jersey border. On a county weighted average, September monthly rainfall totals ranged from 5.1 inches in Bucks County to 9.4 inches in Philadelphia County. Normal monthly rainfall is around 3.9 inches. At the Philadelphia International Airport, the monthly rainfall total of 7.95 inches was the 7th wettest September on record. Monthly rainfall was slightly above average in Berks County, but was below average in the Lehigh Valley and the Poconos.

PENNSYLVANIA, Northeast

Wayne County

Hawley

02 1930EST

0

0

Flash Flood

2000EST

Street and basement flooding. Creek out of its banks. Damage unknown. 2.57 inches of rain in town of Palmyra just north of Hawley.

Bradford County

Athens to

Sayre

21 0230EST

0

0

Thunderstorm Wind (G60)

Tree, large limbs, and wires down. 150 customers without power.

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PENNSYLVANIA, Northeast

PAZ038>040-043>044- 047>048 **Bradford - Susquehanna - Wayne - Wyoming - Lackawanna - Luzerne - Pike**

28	2200EST	0	0	Extreme Cold
29	1000EST			

On the evening of the 28th and the morning of the 29th a widespread killing freeze occurred across central New York and northeast Pennsylvania. Most observations had low temperatures below 30 degrees Fahrenheit. Record lows for the 29th of September were set in Syracuse and Binghamton New York and Avoca Pennsylvania. All three were at least in the coldest five temperatures for September.

PENNSYLVANIA, Northwest

Erie County
Erie

15	1210EST	0	0	Waterspout
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Two waterspouts were briefly observed on Lake Erie approximately five miles west of downtown Erie.

Erie County
Erie

15	1325EST	0	0	Waterspout
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A waterspout was observed on Lake Erie approximately two miles west of downtown Erie. No damage occurred.

Erie County
Countywide

20	2205EST	0	0	10K	Thunderstorm Wind
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Thunderstorm winds downed several trees across the county.

Crawford County
Countywide

20	2210EST	0	0	25K	Thunderstorm Wind
	2230EST				

Thunderstorm winds downed over a dozen trees across the county. One of the trees landed on a house and caused major roof damage.

PENNSYLVANIA, West

Allegheny County
Monroeville

02	1920EST	0	0	Flood
	2015EST			

Heavy thunderstorm rains produced minor flooding on several roadways in the Monroeville area.

Indiana County
2 E Indiana

20	2015EST	0	0	2K	Thunderstorm Wind (G63) ^M
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A thunderstorm wind gust of 63 knots (72 MPH) was recorded at the Indiana County/Jimmy Stewart Airport. These winds also downed a few trees around the city of Indiana.

Mercer County
Sheakleyville

20	2015EST	0	0	2K	Thunderstorm Wind
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Thunderstorm winds downed a few large trees.

Jefferson County
Corsica

23	2330EST	0	0	15K	Flood
24	0215EST				

Thunderstorm rains of over 2.5 inches in less than three hours forced Welch Run out of its banks. Three houses located next to Welch Run reported up to one foot of water in their basements. Minor roadway flooding was also reported in the Brookville area.

PUERTO RICO

Northeast
Ceiba

02	1430AST	0	0	Funnel Cloud
	1435AST			

Navy personnel of Roosevelt Road Base sighted a funnel cloud that touched down on base briefly before dissipating.

North Central
Vega Baja

03	1400AST	0	0	Tstm Wind/Hail
	1530AST			

A spotter reported winds of 40 mph and downed tree branches due to a strong thunderstorm. In addition, Emergency Managers indicated flooding at Ponderosa sector due to heavy rain.

San Juan And Vicinity
San Juan

05	1500AST	0	0	Flash Flood
	1600AST			

A T. V. Meteorologist reported about four inches of rain in Hato Rey sector causing Puerto Nuevo River to flood its banks.

Central Interior
South Portion

17	2000AST	0	0	50K	Flash Flood
18	0200AST				

Ponce And Vicinity
Countywide

17	2000AST	0	0	100K	Flash Flood
18	0200AST				

Southeast
Countywide

17	2000AST	0	0	100K	Flash Flood
18	0200AST				

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PUERTO RICO

A strong tropical wave moved across Puerto Rico during the evening hours affecting the south and southeast sections of Puerto Rico with very heavy rain, flash flooding, mud and landslides. Reports indicated between 6 to 12 inches of rain during the evening and night hours. More than 100 houses were affected, especially in Salinas and Ponce, by flood waters and mudslides. A residence in Ponce collapsed and a child was slightly injured. This rainfall also forced several families into refugee centers. Many roads became impassable due to landslides and flooding, and a bridge in Guayama collapsed. Most of the rivers and streams went out of their banks.

Mayaguez And Vicinity

San German	20	2000AST 2200AST			0	0			Flash Flood
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Southwest

Cabo Rojo	20	2000AST 2200AST			0	0			Flash Flood
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Heavy rain caused the Guanajibo river in Cabo Rojo and the Rosario river in San German to go out of their banks flooding nearby roads.

San Juan And Vicinity

Carolina	21	1400AST 1530AST			0	0			Urban/Sml Stream Fld
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Heavy rains caused urban flooding in Carolina.

Mayaguez And Vicinity

Moca	21	1500AST 1600AST			0	0			Urban/Sml Stream Fld
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Heavy rains caused a bridge to flood in Moca.

North Central

Dorado	23	1400AST 1405AST			1	0			Lightning
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Lightning struck a person causing his death while he was working outdoors feeding shrimps in a shrimp farm. M21OU

Mayaguez And Vicinity

Hormigueros	23	1800AST 2000AST			0	0			Flash Flood
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A spotter from Hormigueros reported Rosario river out of its banks between roads 319 and 114.

RHODE ISLAND

Newport County

Portsmouth	02	1330EST 1400EST			0	0	20K		Lightning
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Lightning struck two utility poles in Portsmouth, causing high-tension wires to fall to the ground and temporarily closing roads. Lightning also struck a house in Portsmouth, starting a fire.

Newport County

Newport	09	1522EST			0	0	10K		Lightning
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Lightning struck a cupola atop a house in Newport, causing a small fire which caused damage to a storage loft in a two-car garage.

Providence County

Central Falls	15	0720EST			0	0	15K		Lightning
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Lightning struck a house in Central Falls, igniting a gas line which caused extensive damage to part of the home.

SOUTH CAROLINA, Central

Richland County

Ballentine	03	1920EST			0	0			Flash Flood
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Excessive rainfall of 4.65 inches in 70 minutes reported. Flooding in low lying areas and roadways closed some roads.

Saluda County

Ridge Spg	03	1930EST			0	0			Flash Flood
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Four to 6 inches of rainfall reported with flooding in low lying areas and across county roads. Streams overflowing and some roads closed.

Lexington County

St Andrews	04	1655EST			0	0	0		Flash Flood
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Heavy rains sent streams over their banks and roadways. Two roads closed in the St. Andrews area.

Richland County

St Andrews	04	1655EST			0	0	0		Flash Flood
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Heavy rains sent streams over their banks and roadways. Two roads closed in the St. Andrews area.

Richland County

Pontiac	22	1545EST 1845EST			0	0			Flash Flood
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EPD reported flash flooding in low lying areas and across roads in northeast Richland County.

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Killed	Injured	Property	Crops						
<u>SOUTH CAROLINA, Central</u>									
Kershaw County Elgin to Lugoff	22	1645EST 1930EST			0	0			Flash Flood
EPD reported flash flooding in low lying areas and across roads in the Elgin and Lugoff areas.									
Barnwell County Williston	22	2328EST			0	0	7K	0	Thunderstorm Wind (G50)
Sheriff reported trees down in Williston, one fell onto a liquor store.									
Barnwell County 5 W Kline to 4.7 W Kline	22	2352EST 2353EST	0.3	60	0	0	0	0	Tornado (F0)
Damage survey found F0 tornado path along Lyndhurst Road taking down only trees.									
Bamberg County Denmark	23	0025EST 0027EST	1	100	0	0			Tornado (F1)
Storm survey found a weak F1 touched in Denmark on Lee Rd. It took down 7 pecan trees in an orchard, overturned a doublewide mobile home, and damaged roof to 7 homes.									
Barnwell County Countywide	23	0100EST 0430EST			0	0			Flash Flood
EPD reported flooding streams, roadways with washouts, and flooding in low lying areas. Thirteen homes were flooded, a few businesses and one school.									
Bamberg County Olar	23	0105EST			0	0	0	0	Thunderstorm Wind (G50)
Highway department reported scattered trees down in the Olar area.									
Bamberg County Countywide	23	0137EST 0500EST			0	0			Flash Flood
EPD reported flooding streams, roadways with washouts, and several homes flooded.									
Newberry County 2 S Whitmire	25	1550EST			0	0		0	Thunderstorm Wind (G50)
Highway department reported trees down.									
Saluda County 7 NE Saluda	25	1550EST			0	0		0	Thunderstorm Wind (G50)
Electric company reported trees down on powerlines.									
Fairfield County Winnsboro	25	1558EST			0	0	0	0	Thunderstorm Wind (G50)
Highway department reported large limbs down in streets and on powerlines.									
Lancaster County 5 NNW Lancaster	25	1600EST			0	0		0	Thunderstorm Wind (G50)
Utility company reported trees down.									
Lexington County 5 WNW Irmo	25	1620EST			0	0		0	Thunderstorm Wind (G50)
Sheriff reported trees down in cove on north side of Lake Murray.									
Aiken County 6 SE Monetta	25	1647EST			0	0	0	0	Thunderstorm Wind (G50)
EOC reported few trees down in Jones Crossroads area.									
Richland County 3 NE Columbia	25	1650EST			0	0		0	Thunderstorm Wind (G50)
Highway Patrol reported trees and powerlines down.									
Kershaw County Cassatt to Bethune	25	1720EST 1730EST			0	0		0	Thunderstorm Wind (G50)
Sheriff reported trees down from Cassatt to Bethune.									
Chesterfield County 5 S Patrick	25	1728EST			0	0	0	0	Thunderstorm Wind (G50)
Post Office reported large limbs down south of Patrick.									
Aiken County North Augusta	25	1933EST			0	0		0	Thunderstorm Wind (G50)
HAM spotter reported trees and powerlines down.									
Aiken County 1 NNE North Augusta to 1.3 NNE North Augusta	25	1935EST 1936EST	0.3	40	0	0	0	0	Tornado (F0)
An F0 took tops out of pine trees along SC hwy 421 between N Augusta and Gloverville									

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
SOUTH CAROLINA, Central									
Aiken County Beech Is	25	1940EST			0	0		0	Thunderstorm Wind (G50)
Sheriff reported trees down.									
Aiken County 1 S Aiken	25	1950EST			0	0		0	Thunderstorm Wind (G50)
EOC reported trees down in Bonnie View Estates.									
SOUTH CAROLINA, North Coastal									
Horry County Myrtle Beach	05	0400EST 0600EST			0	0			Flash Flood
Flash flooding prompted Myrtle Beach city crews to barricade sections of Porcher, parts of Oak Street and side streets along 10th Avenue North.									
Georgetown County Georgetown	05	0525EST 0600EST			0	0			Flash Flood
Law enforcement reported Butts and Fraser Road closed and impassable due to flooding.									
Georgetown County 3.8 S Georgetown to 3.6 S Georgetown	18	0733EST 0734EST	300	30	0	0	8K		Tornado (F1)
A tornado touched down on Waccamaw Neck. Numerous trees were down in the path of the tornado, one damaging the church at Friendfield Village in Hobcaw.									
Georgetown County Georgetown	18	0825EST 1045EST			0	1	750K		Flash Flood
The remnants of Tropical Storm Gordon passed over Georgetown county. Based on spotter reports and radar estimates, over 8 inches of rain fell in a short period of time in the town of Georgetown. Numerous streets were reported flooded by emergency managers, and newspaper accounts illustrated standing water in excess of 2-3 feet in many areas. Many motorists had to abandon their cars due to the rising water, with many automobiles sustaining water damage. Numerous homes also sustained flood damage, particularly along Hawkins Street. Most businesses were forced to close for the day along Front and Fraser Streets, an area that was particularly hard hit with flooding. Only one injury was reported when a policeman had a heart attack after the flood waters entered his home. He was treated and released from a local hospital.									
Horry County Myrtle Beach	18	0915EST 1230EST			0	0	10K		Flash Flood
Emergency management reported street flooding on 21st street with one home sustaining flood damage.									
Horry County North Myrtle Beach	18	0930EST 1130EST			0	0	75K		Flash Flood
Extensive street flooding occurred in downtown North Myrtle Beach. Several local businesses were affected.									
Horry County Garden City	18	0945EST 1100EST			0	0	25K		Flash Flood
Trained spotter reported over a foot of water on Waccamaw Drive. An Horry county spokeswoman reported several homes flooded.									
Horry County Loris	21	1552EST 1630EST			0	1			Lightning
Emergency management reported a person was struck by lightning on Highway 9. The extent of the injuries is not known, but the emergency vehicles responded to a code 3 - indicating a life threatening situation.									
Dillon County 7 NW Bingham	22	1120EST			0	0			Hail (1.00)
Sheriff deputy reported quarter size hail.									
Darlington County Hartsville	22	1900EST 2030EST			0	0			Flash Flood
Florence news media reported Carolina Avenue flooded.									
Florence County Cartersville	22	1930EST 2130EST			0	0			Flash Flood
Florence emergency management reported roads flooded.									
Florence County Pamplico	22	1930EST 2130EST			0	0			Flash Flood
Emergency manager reported that the Old River Road between Pamplico and the Pee Dee River had flooded.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Property	Crops	Character of Storm
<u>SOUTH CAROLINA, Northwest</u>										
SCZ001>014-019										
Oconee Mountains - Pickens Mountains - Greenville Mountains - Greater Oconee - Greater Pickens - Greater Greenville - Spartanburg - Cherokee - York - Anderson - Abbeville - Laurens - Union - Chester - Greenwood										
	01	0000EST			0	0				Drought
	30	2359EST								
Drought conditions were dampened some by a slightly above normal rainfall for the month. However, the area continued a rainfall deficit close to a year's total average rainfall. In May, shallow wells between 35 and 60 feet deep were drying up. During September, wells around 100 feet deep were beginning to dry up. The corn crop was heavily damaged, but other crops did not sustain any major catastrophe.										
Spartanburg County										
Spartanburg	01	2230EST			0	0				Flood
	02	0000EST								
Late night thunderstorms produced excessive rain which caused the eventual flooding of several intersections. One intersection became impassable.										
Union County										
Lockhart	03	1345EST			0	0				Flash Flood
		1700EST								
York County										
Rock Hill	03	1400EST			0	0				Urban/Sml Stream Fld
	04	1400EST								
Thunderstorms and heavy rain occurring throughout the weekend caused some flooding in flood-prone areas. A drain system in the "flat" area of Lockhart clogged and caused flooding to porches of houses. Fire trucks were summoned to pump the water out. Several low-lying neighborhoods in Rock Hill were flooded and at least one street was closed for a while.										
Oconee County										
Seneca	21	0200EST			0	0				Lightning
Oconee County										
Seneca	21	0200EST			0	0				Thunderstorm Wind (G50)
A severe thunderstorm produced damaging winds which blew down several trees and power lines. Lightning struck 2 separate houses, igniting fires in both.										
Greenwood County										
Countywide	22	1030EST			0	0				Urban/Sml Stream Fld
		1300EST								
Laurens County										
Countywide	22	1030EST			0	0				Urban/Sml Stream Fld
		1300EST								
Between 2 and 3 inches of rain fell during the late morning and mid day hours, causing typically flood prone areas to experience some street flooding.										
Cherokee County										
8 S Gaffney	24	1714EST			0	0				Thunderstorm Wind (G50)
An isolated severe thunderstorm blew trees down along Hwy 18.										
Abbeville County										
7 E Abbeville	25	1445EST			0	0				Thunderstorm Wind (G50)
Several trees were blown down near the Greenwood county border.										
Union County										
Union	25	1455EST			0	0				Thunderstorm Wind (G50)
One tree was blown down on a house.										
Greenwood County										
8 NW Greenwood	25	1505EST			0	0				Thunderstorm Wind (G50)
Four trees were blown down.										
Laurens County										
3 E Waterloo to Cross Hill	25	1520EST			0	0				Thunderstorm Wind (G50)
Several trees were blown down on Skippers Lodge Road and along Hwy 72.										
York County										
5 N Rock Hill	25	1522EST			0	0				Thunderstorm Wind (G52) ^M
York County										
5 NE York	25	1530EST			0	0				Thunderstorm Wind (G50)
Numerous trees were downed along Hwy 49.										
Chester County										
Chester	25	1606EST			0	0				Thunderstorm Wind (G50)
Several trees were blown down.										
Chester County										
12 NE Chester	25	1615EST			0	0				Thunderstorm Wind (G50)
Many trees were blown down and one tree fell on a house.										

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH CAROLINA, Northwest

A broken line of thunderstorms with short line segment bow echo signatures crossed the Upstate piedmont during the late afternoon. Wind damage, mainly to trees, occurred in many locations as damaging winds reached the surface.

SOUTH CAROLINA, South Coastal

SCZ040-042>045-047>050 Allendale - Hampton - Northern Colleton - Dorchester - Berkeley - Jasper - Beaufort - Southern Colleton - Charleston

01 0000EST 0 0 Drought

Moderate drought conditions persisted through much of the first half of September over south coastal South Carolina. A tropical airmass combined with a frontal system to produce 6 to 10 inches of rain over eastern Berkeley and northeast Charleston Counties around September 5. Then the remnants of Tropical Storm Gordon produced six to nine inches of rain over portions of south coastal South Carolina around September 18th. Finally, on September 21-23, the remnants of Tropical Storm Helene produced generally another 3 to 8 inches with Doppler estimates of eight to 14 inches over northeast Charleston County and Berkeley County. The tropical airmass early in the month and the remnants of the tropical storms all combined to bring drought conditions to a more normal state.

Berkeley County

**Huger to
Jamestown**

05 0330EST 0 0 Flood
0530EST

Charleston County

**Awendaw to
Mc Clellanville**

05 0330EST 0 0 Flood
0530EST

After suffering from moderate drought conditions for several months, a frontal system and a tropical airmass combined to produce copious amounts of rainfall over the Labor Day weekend. Two to four inches of rain had fallen over the Francis Marion National Park in eastern Berkeley County and the northeast section of Charleston County over the past 24 to 36 hours. With the ground already saturated, additional rainfall of 3 to 5 inches on the morning of the 5th caused water to cut off roads and put several feet of water in some buildings. Doppler radar estimated rainfall totals of 8 to 14 inches across this area over the roughly three day period.

SCZ040-042>045-048>050 Allendale - Hampton - Northern Colleton - Dorchester - Berkeley - Beaufort - Southern Colleton - Charleston

17 0800EST 0 0 Tropical Storm
18 1400EST

Charleston County

Mc Clellanville

18 0930EST 0 0 Flood
1015EST

The remnants of Tropical Storm Gordon produced 1 to 4 inches of rain across south coastal South Carolina with a max over northeastern Charleston County of 6 to 10 inches. Flooding occurred over northeast Charleston County where in excess of 8 inches of rain had fallen less than two weeks earlier. Once again, water got into homes and businesses in the McClellanville area and caused a portion of U.S. Highway 17N to be closed for most of the day on 9/18/00. There was also minor beach erosion. There were a few trees down in the coastal counties as Gordon moved across the area. Strongest observed winds occurred at the Charleston City office with sustained winds of 25 knots and a gust to 32 knots.

Berkeley County

North Portion

22 1130EST 1 0 25K Flood
1330EST

Water across roads and a couple of inches of water in eight homes. F42VE

Allendale County

**1 NW Martin to
1 N Martin**

22 2250EST 1 350 0 1 10K Tornado (F1)
2255EST

Damage to a tin roof on a frame home, a hog feeder damaged, minor damage to several brick homes and several trees down.

Allendale County

**2 NW Martin to
4 ENE Martin**

22 2330EST 4.5 750 1 5 290K Tornado (F2)
2352EST

Fatality occurred in a camper that was one of 10 other campers at a hunt club. The camper was the second one in the line and it appeared to have disintegrated. One of the other campers was turned on its side while the others remained upright, for the most part. Also, there were three mobile homes destroyed, major damage to two mobile homes, minor damage to six mobile homes and major damage to a frame home along with numerous trees down or snapped 10 to 15 feet above the ground. This tornado continued into Barnwell County in WFO Columbia's CWA. M68VE

Berkeley County

North Portion

23 0340EST 0 0 Flood
0400EST

Northern Berkeley County, which had flooded around noon on 9/22/00, received additional rainfall after midnight on 9/23/00. Additional flooding resulted with water across roads, and water seeping into homes.

The two tornadoes that occurred in Allendale County were associated with the remnants of T.S. Helene as it moved across Georgia and South Carolina. Heavy rain developed across Berkeley County during the early morning hours of 9/22/00 and caused flooding over the northern half of the county, especially in and around Moncks Corner. The 42 year-old female was killed when she hit a puddle of water and hydroplaned. She hit a pine tree head on and was killed on impact.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Property	Crops	Character of Storm
<u>SOUTH DAKOTA, Central and North</u>										
Lyman County 3 W Kennebec	03	1700CST			0	0				Hail (1.75)
Grant County Milbank	04	0710CST			0	0				Lightning
Lightning struck a large cottonwood tree in Milbank. Bark and parts of the tree were stripped off heavily damaging the siding of a 32 foot camper and breaking several windows.										
Hand County 8 SW Miller	06	1750CST			0	0				Thunderstorm Wind (G78)
Ninety mph winds destroyed three barns and a small garage along with severely damaging a creeper feeder and an enclosed trailer. Another building was moved from its foundation and damaged. An empty school bus was rolled several times before it came to rest atop a fence. Also, a window was broken out of the house.										
Hand County 4 SW Miller	06	1755CST			0	0				Thunderstorm Wind (G61)
Winds to 70 mph severely damaged a barn and downed several trees.										
Hand County Miller	06	1800CST			0	0				Hail (1.50)
Hand County Miller	06	1800CST			0	0				Thunderstorm Wind (G52)
Brown County 2 N Richmond	06	2055CST			0	0				Hail (0.75)
Stanley County 10 W Mission Ridge to 10 N Hayes	17 18	0700CST 0400CST			0	0				Wild/Forest Fire
Lightning started a grassfire in western Stanley County in the early morning hours of the 17th. With the extremely dry and windy conditions, the fire quickly spread and consumed 25,000 acres of grassland before it was brought under control. Smoke from the fire was seen from 40 miles away. The fire also destroyed six outbuildings and an old unoccupied farmhouse. Some roads had to be closed due to the fire and smoke. Several electrical poles were also burned. Many residents were notified of possible evacuations.										
Campbell County Pollock	17	1110CST 2000CST			0	0				Wild/Forest Fire
Extremely dry and windy conditions contributed to a fire at the Pollock rubble site. The fire spread to the nearby prairie and consumed many acres. The fire came within yards of a new home under construction. The fire was finally contained late in the evening.										
<u>SOUTH DAKOTA, Southeast</u>										
Jerauld County 13 W Wessington Spgs	06	1835CST			0	0				Hail (0.75)
Jerauld County 12 W Wessington Spgs	06	1835CST			0	0				Thunderstorm Wind (G61)
Moody County 7 S Flandreau	09	0300CST			0	0				Thunderstorm Wind (G52)
Thunderstorm winds caused tree damage, including branches broken off.										
Minnehaha County 2 SW Lyons	09	0315CST			0	0	10K			Thunderstorm Wind (G57)
Thunderstorm winds blew shingles off roofs, blew down power lines, and caused tree damage including large limbs broken off.										
Moody County 4 SE Egan	09	0330CST			0	0				Thunderstorm Wind (G52)
Gregory County 3 W Dallas	18	0200CST			0	0				Lightning
Lightning caused a grass fire which burned about 500 acres. The amount of damage was not known.										
<u>SOUTH DAKOTA, West</u>										
Shannon County 9 S Manderson to 3 S Manderson	01 09	1200MST 1000MST			0	0				Wild/Forest Fire
Lightning caused a 7,000 acre fire that threatened portions of the Pine Ridge Indian Reservation. The fire was driven by strong winds and low humidities. Firefighters were able to contain the blaze before any homes were lost.										
Shannon County Manderson	02 04	0800MST 2200MST			0	0				Wild/Forest Fire
Lightning caused a 700 acre fire near Manderson. Another fire, also caused by lightning, burned 100 acres near Oglala.										
Meade County Countywide	05 06	1700MST 1400MST			0	0				Wild/Forest Fire
Lightning caused seven fires in central Meade County. The largest fire was around 500 acres south of Hereford.										

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Meade County 6 NE Volunteer	05	1700MST			0	0			Thunderstorm Wind (G63)
Meade County Union Center	05	1735MST			0	0	115K		Thunderstorm Wind
Strong downburst winds flattened a post frame building for a ranch supply business. Two barns and a garage near the business also had their roofs blown off. The winds left a path of damage about 200 yards wide.									
Pennington County 6 W Rockerville	05	2100MST			0	0			Wild/Forest Fire
	07	2100MST							
A lightning strike caused a 30 acre blaze near Sheridan Lake. No homes or structures were threatened.									
Fall River County Countywide	09	1400MST			0	0			Wild/Forest Fire
	10	1800MST							
A small fire started by sparks from a train was fueled by 50 mph winds. The fire burned through the small town of Ardmore. A vacant house and four outbuildings were destroyed, but no injuries were reported.									
Mellette County White River	09	2225MST			0	0			Thunderstorm Wind (G63)
Tripp County Winner	09	2257MST			0	0	2K		Thunderstorm Wind (G52)
An awning was torn off a building in Winner.									
Butte County Countywide	10	0300MST			0	0			Wild/Forest Fire
	12	1100MST							
Harding County Countywide	10	0300MST			0	0			Wild/Forest Fire
	12	1100MST							
Meade County Countywide	10	0300MST			0	0			Wild/Forest Fire
	12	1100MST							
Perkins County Countywide	10	0300MST			0	0			Wild/Forest Fire
	12	1100MST							
Lightning caused at least 23 fires across a four county region. The largest fire was two to three miles long and up to five miles wide along the Grand River in Perkins County. No structures were lost, although corrals and a few sheds were destroyed, as well as 70 tons of hay. Strong northwest winds up to 40 mph fanned the fires, and reignited some others after they had been contained.									
Harding County Countywide	17	0110MST			0	0			Wild/Forest Fire
	18	2000MST							
Perkins County Countywide	17	0200MST			0	0			Wild/Forest Fire
		2200MST							
Thunderstorms that moved through northwestern South Dakota caused several lightning fires. Twenty-one fires were reported in Harding County. The three largest fires burned a total of 17,000 acres, with another 1,000 acres burned by the smaller fires. Several old buildings and corrals were destroyed, but no occupied homes were lost. In Perkins County, two fires were reported. The largest was 4,500 acres northeast of Meadow.									
Shannon County Countywide	17	2130MST			0	0			Wild/Forest Fire
	19	1900MST							
Bennett County Countywide	17	2200MST			0	0			Wild/Forest Fire
Jackson County Countywide	17	2200MST			0	0			Wild/Forest Fire
	19	1400MST							
Todd County Countywide	17	2230MST			0	0			Wild/Forest Fire
	19	0700MST							
Todd County 3 NW Rosebud	17	2230MST			0	0	35K		Thunderstorm Wind (G52)
Todd County Mission to 7 E Mission	17	2247MST			0	0	100K		Thunderstorm Wind (G61) ^M
		2315MST							

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>SOUTH DAKOTA, West</u>									
Todd County 2 E Okreek	17	2330MST 2350MST			0	0			Thunderstorm Wind (G83) ^M
Tripp County Countywide	17 18	2330MST 2200MST			0	0			Wild/Forest Fire
Dry lightning and strong downburst winds hit portions of southwestern South Dakota. Two trailer homes were flipped over and destroyed near Rosebud. No one was home at the time. Several homes in Mission, where a sensor recorded a 68 mph gust, had roof damage, and a minister had a shed roof smash into his van. The local electric cooperative reported four power poles broken, as well as problems with other electric equipment caused by the power lines touching each other. The worst damage was to a business seven miles east of Mission. The roof was torn off the building, and a utility pole and radio tower were toppled. Two home weather stations, located two miles east of Okreek, reported peak winds of 89 and 93 mph. The dry lightning also caused more than 30 fires throughout the region. The largest was estimated at 15,000 acres just south of Kyle. On the Rosebud Reservation, four fires blazed, with one fire reaching 1,100 acres. One home was destroyed in the fire, and another had damage on one side. Southwestern Jackson County had a 2,500 acre fire, and Tripp County had two fires just south of Winner, each around 1,000 acres. Ranchers reported at least 1,500 round bales of hay destroyed. Also, seven cattle were killed and another 20 cattle were badly burned. In Bennett County, a large fire of several thousand acres occurred along Highway 18 northeast of Batesland.									
SDZ024-028									
Northern Black Hills - Central Black Hills									
	22 23	0100MST 0500MST			0	0			Winter Storm
An early season winter storm brought heavy snow to the region. Three to six inches of snow fell across the central Black Hills, with five to ten inches of snow in the northern Black Hills. Lead reported the most snowfall from the storm with 10.5 inches. Some of the snowfall totals at the cooperative observing sites set snowfall records for the month of September.									
<u>TENNESSEE, Central</u>									
Benton County 5 NE Camden	04	1645CST			0	0			Thunderstorm Wind (G50)
Electric worker reported trees down on power lines.									
Benton County Camden	04	1705CST			0	0			Thunderstorm Wind (G50)
Local law enforcement reported trees down on Rowsey St.									
Rutherford County Murfreesboro	12	1645CST			0	0	25K		Lightning
The Rutherford county communications center on Old Salem Road lost all radio, telephone lines and its 911 call board after taking a lightning strike. Dispatchers were forced to move into the EMS Director's mobile unit in the parking lot.									
Franklin County Huntland	20	1915CST			0	0			Thunderstorm Wind (G50)
Law enforcement reported several trees down.									
Franklin County 6 E Cowan	20	1932CST			0	0			Thunderstorm Wind (G50)
2 large trees across Highway 56 in Sewanee.									
<u>TENNESSEE, East</u>									
Mcminn County Niota	04	1750EST			0	0			Tstm Wind/Hail
Trees down in Niota									
Bradley County Charleston	04	1855EST			0	0			Tstm Wind/Hail
Trees and powerlines down									
Sequatchie County 5 W Dunlap to Dunlap	20	1935EST			0	0			Tstm Wind/Hail
Trees down on Fredonia Mtn and Layman Roads.									
Monroe County Madisonville	20	2100EST			0	0			Tstm Wind/Hail
Trees and Power and phone lines down on Ball Play Road.									
Monroe County 2 E Madisonville	20	2145EST			0	0			Tstm Wind/Hail
Trees down on Highway 411 reported by dispatch.									
Bradley County Cleveland	24	1755EST			0	0			Tstm Wind/Hail
Trees and limbs down									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
TENNESSEE, West									
Hardeman County Silerton	11	1900CST 1905CST			0	0	10K		Thunderstorm Wind
A few trees were blown down. One tree damaged a vehicle. Another tree damaged a mobile home.									
Shelby County 4 S Millington	14	2005CST 2010CST			0	0	5K		Thunderstorm Wind
Some trees were knocked down.									
TEXAS, Central									
San Saba County 15 SW San Saba	05 06	1800CST 1800CST			0	0	10K		Wild/Forest Fire
Mcculloch County 15 SE Brady	05 06	2300CST 1800CST			0	0	5K		Wild/Forest Fire
A grassfire started by lightning in southwest San Saba County on the evening of the 5th quickly spread into southeast McCulloch County. The fire was contained by the evening of the 6th, but not before 6500 acres of grassland was burned and hundreds of miles of fencing destroyed.									
Schleicher County Eldorado	12	1525CST			0	0	7K		Thunderstorm Wind
The Schleicher County ISD's exhibit building lost its roof when high winds blew through the area, tossing the debris onto Highway 277. Luckily, all the animals inside the building were unhurt.									
Menard County 3 E Menard	12	1550CST 1700CST			0	0			Flash Flood
Rainfall of up to 3 inches caused area creeks and draws to rise rapidly. A low water crossing along Farm Road 2092 just east of Menard was covered by high water.									
Jones County Hawley	12	1812CST			0	0			Hail (1.00)
Jones County 10 SE Hamlin	12	1818CST			0	0			Hail (1.75)
Fisher County Mc Caulley	12	1834CST			0	0			Hail (1.75)
Fisher County Longworth	12	1910CST			0	0			Hail (1.75)
Taylor County View	12	1925CST			0	0	5K		Thunderstorm Wind (G60)
Numerous trees downed by winds estimated as high as 70 mph.									
Taylor County Abilene	12	1959CST			0	0			Hail (0.88)
Taylor County Potosi	12	2002CST			0	0			Hail (0.88)
Severe thunderstorms developed along a stalled frontal boundary across the Big Country during the evening of the 12th. Golf ball size hail was reported at several locations in Jones and Fisher Counties, while nickel size hail and winds up to 70 mph were seen near Abilene.									
Runnels County Rowena	23	1820CST			0	0			Hail (1.75)
An isolated severe thunderstorm dropped golf ball size hail in Rowena in southern Runnels County.									
Crockett County 15 S Ozona	24	1300CST 1500CST			0	0			Flash Flood
Heavy rainfall of 3 to 4 inches fell across southern Crockett County, flooding low water crossings. Highway 163 south of Ozona was closed when high water covered the roadway.									
TEXAS, Central Southeast									
TXZ163>164-176>179- 195>200-210>214- 226>227-235>238									
Houston - Trinity - Madison - Walker - San Jacinto - Polk - Burleson - Brazos - Washington - Grimes - Montgomery - Liberty - Colorado - Austin - Waller - Harris - Chambers - Wharton - Fort Bend - Jackson - Matagorda - Brazoria - Galveston									
	01 06	0000CST 2300CST			5	0			Excessive Heat

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Central Southeast

A record setting heat wave continued over southeast Texas through the first week of September 2000. The temperature at Houston Intercontinental soared to 109 degrees on the 4th and 108 degrees on the 5th, setting new records for the all-time highest temperatures recorded in Houston. The temperature in College Station peaked at 112 degrees on the 4th and 111 degrees on the 5th, both the highest temperatures ever recorded in College Station. In Galveston, the all-time record high temperature of 101 degrees was tied on the 4th, then broken the next day when the temperature rose to 104 degrees. Temperatures over southeast Texas began to cool on the 6th. In all, Houston recorded 6 consecutive days with temperatures of 104 degrees or higher and College Station recorded 6 consecutive days of 107 degrees or higher. Galveston reached 100 degrees or higher for the first time since 1939, and for the first time on record had more than one day in a season with 100-degree temperatures. A heat wave with temperatures of this duration and magnitude is unprecedented for southeast Texas. All 5 heat related deaths occurred in Harris County.

F58PH, M69PH, M50OU, M61PH, F79PH

TXZ163>164-176>179-195>200-210>214-226>227-235>238 **Houston - Trinity - Madison - Walker - San Jacinto - Polk - Burleson - Brazos - Washington - Grimes - Montgomery - Liberty - Colorado - Austin - Waller - Harris - Chambers - Wharton - Fort Bend - Jackson - Matagorda - Brazoria - Galveston**

01 0000CST 0 0 102.3M Drought
30 2359CST

Severe drought continued across southeast Texas through September 2000. The combination of excessive heat and dryness caused many wildfires to burn during the first week of the month including a 4500 acre fire in Liberty County on the 4th and a 1965 acre fire in Trinity County on the 2nd. Water rationing continued during the first half of the month in several small communities and was briefly instigated in the city of Houston. Water line breaks and small grass fires were a common problem across southeast Texas, especially at the beginning of the month. By the end of September, damage estimates for the season to cotton, wheat, and forage crops and increased irrigation reached \$102.3 million for southeast Texas.

Liberty County

Hardin

01 1530CST 0 0 15K Thunderstorm Wind
Power lines down.

Montgomery County

Magnolia

01 1630CST 0 0 15K Thunderstorm Wind
Tree down on power lines.

Montgomery County

The Woodlands

01 1635CST 0 0 15K Thunderstorm Wind
Trees and power lines down.

Harris County

Kingwood

01 1640CST 0 0 15K Thunderstorm Wind
Trees down.

Houston County

Weches

02 1500CST 0 0 15K Thunderstorm Wind
Trees down at FM 227 and SH 21.

Austin County

Industry

02 1814CST 0 0 25K Thunderstorm Wind
Windows blown out of a house along SH 159.

Austin County

5 SSW Bellville

02 1817CST 0 0 15K Thunderstorm Wind
Trees down along FM 949.

Austin County

Burleigh

02 1845CST 0 0 15K Thunderstorm Wind
Trees and power lines down at FM 529 and Smith Road.

Chambers County

Hankamer

02 1905CST 0 0 100K Thunderstorm Wind
Back porch ripped off home with barn damaged. Two metal outbuildings damaged on FM 563.

Chambers County

Hankamer

02 1913CST 0 0 25K Thunderstorm Wind
Truck blown off highway on I-10 at mile marker 829.

Chambers County

3 S Anahuac

02 1925CST 0 0 150K Thunderstorm Wind
Windows blown out of house with large tree down on Bayshore Road. Most of a two story home under construction destroyed. Trailer destroyed just north of Oak Island.

Chambers County

Smith Pt

02 1940CST 0 0 0 Thunderstorm Wind (G62) ^M

Trinity County

2 W Sebastopol to 7 SE Trinity

03 1515CST 1 2 1M Thunderstorm Wind
1530CST

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
					Killed	Injured	Property	Crops	
TEXAS, Central Southeast									
Downburst winds of 80 to 100 mph caused a three mile wide swath of damage along FM 356 between Trinity and Sebastopol near White Rock Creek. A woman was killed when the front porch collapsed at her home in the Hillwood Acres subdivision. Two children were injured inside several boats that flipped over in the lake. Several mobile homes and two automobiles were damaged in the Harbor Point subdivision. Several wooden porches, staircases, fences, and railings were damaged in the area. Light poles were blown down on the FM 356 bridge. Several large trees were downed and roof damage occurred at the Galloway Marina with a large portion of the metal roof over the back deck torn off. A boat storage facility along FM 356 was nearly destroyed. F84LS									
Trinity County									
Sebastopol	03	1650CST			0	0	25K		Thunderstorm Wind
Trees and power lines down.									
Chambers County									
Hankamer	03	1820CST			0	0	100K		Thunderstorm Wind
Two cars and a motorcycle overturned on Loop 562 with wind gusts to 60 mph.									
Chambers County									
1 E Anahuac	03	1830CST			0	0	25K		Thunderstorm Wind
Trees and power lines down on FM 563.									
Chambers County									
Anahuac	05	1515CST			0	0	15K		Thunderstorm Wind
Power poles down on FM 563.									
Harris County									
Pasadena	05	1535CST			0	0	40K		Thunderstorm Wind
Numerous power poles down.									
TXZ213									
Harris									
	10	0800CST			1	0			Excessive Heat
A woman was killed from heat exposure in her home. F88PH									
San Jacinto County									
Coldspring	12	1800CST			0	0	15K		Thunderstorm Wind
Trees down along FM 2025.									
San Jacinto County									
Countywide	12	1820CST 2115CST			0	0	25K		Flash Flood
Flooding reported along SH 150.									
Brazoria County									
Lake Jackson	13	0300CST			0	0	25K		Thunderstorm Wind
Trees down.									
Brazoria County									
South Portion	13	0400CST 0800CST			0	0	150K		Flash Flood
Several roads and railroad underpass impassable in Freeport and Clute. Water inside a house in Clute. Cars flooded and high water in streets in Clute, Freeport, and Danbury. Total of 7.7 inches of rainfall in Angleton.									
Galveston County									
Countywide	13	1230CST 1615CST			0	0	100K		Flash Flood
Foot of standing water on streets in League City with cars flooded and stalled. Street flooding in Galveston with flooding on Broadway. Several cars submerged in water and several streets barricaded in Texas City including Palmer Highway. Over 7 inches of rainfall in League City.									
Montgomery County									
4 SE Conroe	14	1545CST			0	0	15K		Thunderstorm Wind
Trees down along FM 3083.									
Brazoria County									
Angleton	14	1645CST			0	0	0		Funnel Cloud
Numerous funnel clouds sighted.									
Brazoria County									
Angleton to Rosharon	14	1710CST 1715CST			0	0	0		Funnel Cloud
Numerous funnel clouds sighted.									
Harris County									
Katy	14	1800CST			0	0	0		Funnel Cloud
Galveston County									
Bacliff	14	1928CST			0	0	0		Funnel Cloud
Harris County									
Humble	22	0230CST			0	0	50K		Thunderstorm Wind
Trees and fences down at Humble Elementary.									

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

TEXAS, Extreme West

NONE REPORTED.

TEXAS, Mid - South

TXZ234-243

Victoria - Nueces

01 0000CST
05 2359CST

0 0

Excessive Heat

Stagnant high pressure, light winds and several months of below normal rainfall, allowed temperatures to reach extreme levels for the first 5 days of September. High temperatures remained above 100 degrees for most locations. Aside from Corpus Christi and Victoria setting all time record highs, 109 and 111 respectively, on September 5th, Alice, Cotulla, Kingsville and Laredo reached 111, 112, 110 and 111 degrees respectively. Additional evidence that September 5th was the hottest day ever recorded for South Texas, coastal sites Rockport and Corpus Christi Naval Air Station reported 107 and 106 degrees respectively.

TEXAS, North

TXZ091>095-098>107-
115>123-129>135-
141>148-156>162-
174>175

Montague - Cooke - Grayson - Fannin - Lamar - Haskell - Throckmorton - Young - Jack - Wise - Denton - Collin - Hunt - Delta - Hopkins - Stephens - Palo Pinto - Parker - Tarrant - Dallas - Rockwall - Kaufman - Van Zandt - Rains - Eastland - Erath - Hood - Somervell - Johnson - Ellis - Henderson - Comanche - Mills - Hamilton - Bosque - Hill - Navarro - Freestone - Anderson - Lampasas - Coryell - Bell - McLennan - Falls - Limestone - Leon - Milam - Robertson

01 0000CST
23 2359CST

5 0

Excessive Heat

Excessive Heat

A strong ridge of high pressure remained over the region, bringing record heat to Texas for the month of September, and the hottest weather of the summer. Temperatures reached 111 degrees at DFW Airport on September 4, which set the all-time record for the month of September. Daily records were set over north Texas during the first 4 days of September. The cooperative stations had September high temperatures ranging from 108 degrees at Emory to 114 degrees at Possum Kingdom lake. F66PH, F77PH, F83PH, F77PH, M46OU

TXZ091>095-098>107-
115>123-129>135-
141>148-156>162-
174>175

Montague - Cooke - Grayson - Fannin - Lamar - Haskell - Throckmorton - Young - Jack - Wise - Denton - Collin - Hunt - Delta - Hopkins - Stephens - Palo Pinto - Parker - Tarrant - Dallas - Rockwall - Kaufman - Van Zandt - Rains - Eastland - Erath - Hood - Somervell - Johnson - Ellis - Henderson - Comanche - Mills - Hamilton - Bosque - Hill - Navarro - Freestone - Anderson - Lampasas - Coryell - Bell - McLennan - Falls - Limestone - Leon - Milam - Robertson

01 0000CST
30 2359CST

0 0

Drought

Drought

The long summer drought continued across Texas in September along with the hot temperatures. At Dallas/Fort Worth International Airport, 84 consecutive days with no measurable rainfall were recorded before the streak was finally broken on September 23rd. However, a meager .17 of an inch of rain was recorded the whole month at DFW, which was over 3 inches (3.22) below normal, and brought the yearly deficit to 4.69 inches. Also, it was the fourth driest September for DFW (the 3 drier Septembers occurred in 1984 (.09), 1921 (.11) and 1939 (.12)) Waco received a bit more rain, 1.11 inches, but was still almost 2 ½ (2.41) below normal for the month. Most locations across the state experienced similar fates, which only seemed to prolong the long hot summer. Drought relief began in October, with more widespread rainfall.

Delta County

Cooper

01 1310CST

0 0

10K

Thunderstorm Wind

Two mobile homes were damaged by high thunderstorm winds.

Hopkins County

Miller Grove

01 1410CST

0 0

20K

Thunderstorm Wind

A strong thunderstorm wind blew trees down onto seven cars, and a storage building was blown into a swimming pool.

Henderson County

Athens

01 1415CST

0 0

Thunderstorm Wind (G52)

Large trees were blown down near Lake Athens.

Ellis County

2 S Italy

02 1400CST

0 0

2K

Thunderstorm Wind

Several tractor-trailer rigs were blown off Interstate 35 by high thunderstorm winds.

Anderson County

1 S Elkhart

02 1450CST

0 0

15K

Thunderstorm Wind

A barn was destroyed and trees were blown down.

Leon County

Jewett

02 1500CST

0 0

Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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TEXAS, North

McLennan County

8 NE Waco **02** **1510CST** **0** **0** **Thunderstorm Wind (G61)**

Thunderstorms produced a wind gust near 70 miles per hour between Belmead and Axle.

Leon County

Buffalo **02** **1513CST** **0** **0** **10K** **Thunderstorm Wind**

High thunderstorm winds blew down trees and telephone poles.

McLennan County

Riesel **02** **1900CST** **0** **0** **15K** **Thunderstorm Wind**

Trees were blown down and a barn was destroyed by high thunderstorm winds. The underpinning of several mobile homes was blown off.

September 1-2, Episode Narrative

Isolated thunderstorms affected the area, causing some damage South and East of the Metroplex. With the high temperatures, downburst winds were the main cause of problems.

Hunt County

2 S Caddo Mills **12** **1118CST** **0** **0** **Thunderstorm Wind (G52)**

Trees were blown down by high thunderstorm winds.

Kaufman County

Terrell **12** **1222CST** **0** **0** **Thunderstorm Wind (G52)**

Kaufman County

Terrell **12** **1231CST** **0** **0** **Flash Flood**

Widespread street flooding was reported in town.

Dallas County

Dallas **12** **1300CST** **0** **0** **2K** **Thunderstorm Wind**

The wall of a car wash was blown down by high thunderstorm winds.

Kaufman County

Terrell **12** **1310CST** **0** **0** **Flash Flood**

Widespread street flooding continued in town.

Henderson County

8 NW Eustace **12** **1400CST** **0** **0** **Thunderstorm Wind (G52)**

Trees were blown down in Gun Barrel City.

Hill County

5 NE Hillsboro **12** **1400CST** **0** **0** **Thunderstorm Wind (G61)**

A sheet metal roof was blown off a building.

McLennan County

Crawford **12** **1435CST** **0** **0** **Thunderstorm Wind (G52)**

Large trees were blown down by high thunderstorm winds.

Bell County

Temple **12** **1600CST** **0** **0** **Thunderstorm Wind (G61)**

Henderson County

8 NW Eustace **12** **1700CST** **0** **0** **20K** **Thunderstorm Wind**

Strong winds damaged three mobile homes and blow down some trees.

September 12th, Episode Narrative

Showers and thunderstorms affected portions of North Texas. Damaging downburst winds and locally heavy rain caused numerous problems over the region. The rain brought some short term relief to portions of parched North Texas.

TEXAS, North Panhandle

TXZ001>020

Dallam - Sherman - Hansford - Ochiltree - Lipscomb - Hartley - Moore - Hutchinson - Roberts - Hemphill - Oldham - Potter - Carson - Gray - Wheeler - Deaf Smith - Randall - Armstrong - Donley - Collingsworth

01 0000CST
30 2359CST

0 0

Drought

A slight drought struck the Texas panhandle in September as reported by the USGS. A dollar estimate on crop damage will be made available after the growing season.

TEXAS, Northeast

Cass County

Hughes Spgs **01** **1450CST** **0** **0** **Thunderstorm Wind (G58)**

Numerous trees and power lines down.

Angelina County

Lufkin **02** **1530CST** **0** **0** **40K** **Thunderstorm Wind (G80)**

A home roof was damaged and street lamps were pushed over along with numerous trees.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Property Damage	Crops	Character of Storm
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TEXAS, South

TXZ248>255

Zapata - Jim Hogg - Brooks - Kenedy - Starr - Hidalgo - Willacy - Cameron

01 0000CST

0 0

Drought

30 0000CST

The drought continued to plague much of deep south Texas through September. Many stock tanks have dried up across Starr and Zapata counties. Both of these counties were declared natural disaster areas in August. In some cases ranchers in Starr county burned prickly pear cactus to feed their cattle. Some ranchers have hauled water from cities to their pastures. Very dry subsoil moisture caused reduction in grain sorghum and cotton crops across most of the remaining counties of deep south Texas. In addition, several locales have been placed under both mandatory and voluntary water restrictions.

Hot and very dry weather aggravated the drought across deep south Texas in September. Several record highs were set for temperatures over the century mark in the early part of the month. Rainfall amounts were well below normal with most areas receiving less than an inch of rain. A few spots received 1 to 2 inches of rainfall. However, September is normally the wettest month of the year with monthly rainfall averaging 4 to 6 inches. In fact, the National Weather Service in Brownsville set a new record. It was the sixth driest September on record since 1878. Yearly average departures through the end of September ranged from 6 to 10 inches below normal. Monthly climatological reports from Cooperative Observers and National Weather Service data reported the following departures from normal: McCook at -10.54 inches, La Joya at -10.36 inches, Rio Grande City at -9.10 inches, McAllen at -8.08, Brownsville at -8.79 inches, and Raymondville at -9.61 inches.

Finally, total storage in the 2 reservoirs, Falcon and Amistad, that supply water to the lower Rio Grande Valley remains at around 32 percent of conservation capacity.

TEXAS, South Central

TXZ171>173-183>194-
202>209-217>225-228

Llano - Burnet - Williamson - Val Verde - Edwards - Real - Kerr - Bandera - Gillespie - Kendall - Blanco - Hays - Travis - Bastrop - Lee - Kinney - Uvalde - Medina - Bexar - Comal - Guadalupe - Caldwell - Fayette - Maverick - Zavala - Frio - Atascosa - Wilson - Karnes - Gonzales - De Witt - Lavaca - Dimmit

01 0001CST

0 0

Drought

30 2359CST

With essentially no rain falling in September, the severe drought continued across all 33 counties of South Central Texas. Lake and river levels were reported to be extremely low, with many approaching record low levels. Numerous small creeks and streams had already ceased flowing. Aquifer levels were remained near all time low levels. Strong conservation measures remained in place over most of the area. Agricultural activities were essentially brought to a halt.

Williamson County

Round Rock

02 1715CST
1720CST

0 0

20K

0

Thunderstorm Wind

Severe thunderstorm winds toppled over several trees.

Travis County

8 E Pflugerville to
Manor

02 1720CST
1730CST

0 0

80K

0

Thunderstorm Wind

A downburst from a severe thunderstorm tore the roof off a church and knocked over 2 mobile homes.

Lee County

Giddings

02 1735CST
1745CST

0 0

90K

0

Thunderstorm Wind

Severe thunderstorm winds blew the roofs off several businesses in Giddings.

Bastrop County

Elgin

02 1750CST
1800CST

0 0

20K

0

Thunderstorm Wind

Severe thunderstorm winds blew down several trees just east of Elgin.

Llano County

Llano

15 1620CST
1630CST

0 0

120K

0

Thunderstorm Wind

Severe thunderstorm winds caused widespread damage to trees and roofs in the Llano area. The winds also blew down power lines.

Gillespie County

5 E Fredericksburg to
7 E Fredericksburg

15 1630CST
1645CST

0 0

20K

0

Thunderstorm Wind

Severe thunderstorm winds blew down several trees.

Kinney County

Brackettville

24 1615CST
1620CST

0 0

20K

0

Thunderstorm Wind

Severe thunderstorm winds knock down several trees in the Brackettville area.

Zavala County

La Pryor

24 1650CST
1655CST

0 0

50K

0

Thunderstorm Wind

Severe thunderstorm winds blew the roof off a school, and also knocked down several trees.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>TEXAS, South Central</u>									
Zavala County Batesville	24	1710CST 1730CST			0	0	30K	0	Thunderstorm Wind
Severe thunderstorm winds blew down numerous utility poles.									
Zavala County Crystal City	24	1710CST 1730CST			0	0	10K	0	Thunderstorm Wind
Severe winds from a thunderstorm caused a pavillion to collapse in Crystal City.									
<u>TEXAS, South Panhandle</u>									
TXZ021>044	Parmer - Castro - Swisher - Briscoe - Hall - Childress - Bailey - Lamb - Hale - Floyd - Motley - Cottle - Cochran - Hockley - Lubbock - Crosby - Dickens - King - Yoakum - Terry - Lynn - Garza - Kent - Stonewall								
	01	0000CST			0	0			Drought
	30	2300CST							
The long term drought that developed across much of the Southern Plains early this summer persisted through September across West Texas. The average monthly rainfall for the Texas South Plains was only 0.05 inches, which was about 2.49 inches below normal. The Lubbock International Airport only measured a trace of precipitation during the month, making it the driest September on record. In addition to the persistent dry weather pattern that the region experienced, unusually warm conditions prevailed during the month. The average maximum temperature across the South Plains was 6.9 degrees above normal for the month. The high temperature recorded at the Lubbock International Airport climbed above 100 degrees seven times and there were six all time record high temperatures established during September. The combination of the heat and the lack of rain continued to result in significant stress to agriculture. Substantial loss of dryland crops occurred.									
More detail, including rough estimates of crop damage, will be included in later months after the extent of the drought is better determined.									
<u>TEXAS, Southeast</u>									
TXZ180>182-201-215>216	Tyler - Jasper - Newton - Hardin - Jefferson - Orange								
	01	0000CST			0	0			Excessive Heat
	05	0000CST							
Record heat which began in late August 2000 continued into the beginning of September across southeast Texas. The all-time record high temperature for the month of September was set on the 4th at Beaumont/Port Arthur with a high of 105.									
Jasper County Evadale	01	1518CST			0	0	5K		Thunderstorm Wind
Sheriff office reported many trees and power lines downed.									
Hardin County Honey Is	01	1520CST			0	0	2K		Thunderstorm Wind
Trees and power lines were downed as reported by 911 office.									
Hardin County 1 E Sour Lake	01	1554CST			0	0	5K		Thunderstorm Wind
Many trees were blown down at Countrywood subdivision near Sour Lake.									
Jefferson County Bevil Oaks	01	1600CST			0	0			Hail (1.75)
Jasper County 5 S Jasper	02	1547CST			0	0	15K		Thunderstorm Wind
Trees blown down on house near FM 252 and FM 1005.									
Newton County Deweyville	02	1646CST			0	0	2K		Thunderstorm Wind
Trees blown down, as reported by sheriff office.									
Orange County Mauriceville	02	1700CST			0	0	2K		Thunderstorm Wind
Trees blown down, according to fire department.									
Orange County Little Cypress	02	1745CST			0	0	5K		Thunderstorm Wind
Fire department reported trees and power lines downed.									
Jefferson County Nederland	02	1750CST			0	0	2K		Thunderstorm Wind
Police reported trees blown down.									
Jefferson County Bevil Oaks	02	1855CST			0	0	2K		Thunderstorm Wind
Sheriff department reported trees blown down.									
Jefferson County Hamshire	02	1922CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

TEXAS, West

NONE REPORTED.

TEXAS, Western North

Wichita County

Burkburnett

11 1635CST 0 0 40K Thunderstorm Wind

A section of roof was blown off 2 homes, one on Holman Road and the other on Schmoker Road. Twenty-eight power poles were downed in western and downtown parts of the city. In addition, small sheds were destroyed; trees were downed, and windows were blown out of 6 mobile homes.

Clay County

9 NW Shannon

11 1841CST 0 0 3K Thunderstorm Wind

A house roof was damaged, and a porch was destroyed.

UTAH, East

Grand County

18 NW Moab to 17 NNW Moab

08 1625MST 2 30 0 0 Tornado (F0)

A weak tornado was observed by a radio station employee and her husband as they traveled north on US Highway 191. The thunderstorm which produced this tornado had a dark green appearance.

Grand County

10 NNE Cisco to 14 NNE Cisco

21 1415MST 0 0 10K Hail (1.00)

Quarter-size hail and winds estimated at 40 to 50 MPH were reported by an amateur radio operator traveling on eastbound Interstate 70. At a minimum, the hail dented the RV being driven by the amateur radio operator.

UTZ023

Eastern Uinta Mountains

23 0330MST 0 0 Heavy Snow

A cold upper low from the north produced the first significant snowfall of the season in extreme northeast Utah. 6 to 10 inches of snow fell on the mountains above the 8000 foot level.

San Juan County

6 E Monticello

29 1340MST 0 0 Hail (0.75)

1344MST

San Juan County

Monticello

29 1805MST 0 0 Hail (1.00)

1810MST

UTAH, West and Central

Tooele County

Wendover

01 1300MST 0 0 0 0 Dry Microburst

A dry thunderstorm produced a wind gust to 61 mph (53 kts) at the airport in Wendover.

Salt Lake County

Herriman

01 1510MST 0 0 0 0 Hail (1.50)

1515MST

A severe thunderstorm deposited 1 1/2 inch hail on the town of Herriman.

Salt Lake County

Sandy City

01 1915MST 0 0 20K 2K Thunderstorm Wind (G50)

1930MST

Strong thunderstorm winds in Sandy sent a large tree onto several cars, and knocked other trees onto a house and several power lines.

Piute County

Circleville

08 1200MST 0 0 0 0 Hail (0.75)

1210MST

A severe thunderstorm dumped 3/4 inch hail on the town of Circleville.

Garfield County

Panguitch

08 1200MST 2 20 0 0 Tornado (F0)

1205MST

A tornado was spotted near Panguitch on Highway 20 which goes from US-89 to I-15. The tornado stayed over open country for about 5 minutes before lifting. No damage was reported.

Millard County

Fillmore to Meadow

21 1115MST 0 0 0 0 Hail (0.75)

1120MST

A thunderstorm dropped 3/4 inch hail in the towns of Fillmore and Meadow.

UTZ006>010

Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Uinta Mountains - Wasatch Plateau/Book Cliffs

22 1200MST 0 0 0 0 Winter Storm

1200MST

A winter-like storm brought an early taste of things to come, producing widespread snow in the Northern Mountains, with brisk east

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

UTAH, West and Central

winds along west slopes of the Wasatch Front. Over a foot of snow fell in many mountain locations, with smaller amounts in the mountain valleys. Some of the higher totals included 14 inches at Henefer, Snowbird and Woodruff, 12 inches at Park City and Randolph, 10 inches at Coalville and The Canyons, 8 inches in Peoa, 6 inches in Enterprise, and 5 inches in Morgan and on the Tooele Bench.

Garfield County Henrieville

**29 1715MST
1815MST** **0 0 0 0 Hail (1.00)**

Two separate thunderstorms dumped 3/4 inch and 1 inch diameter hail in Henrieville.

VERMONT, North and Central

Franklin County Sheldon

21 0555EST **0 0** **Thunderstorm Wind (G54) ^M**

A strong cold front moved across the north country during the early morning. A thunderstorm with high winds accompanied the front. Winds were measured at 54 knots (62 mph) at 555 AM EST (655 AM EDT). In addition, trees were blown down on Route 36.

VERMONT, South

NONE REPORTED.

VIRGIN ISLANDS

St. Croix County St. Croix

**03 1620AST
1630AST** **0 0** **Waterspout**

Federal Aviation Administration reported that an aircraft sighted a waterspout about 10 miles northwest of St. Croix.

St. Croix County St. Croix

**14 0700AST
0715AST** **0 0** **Funnel Cloud**

A spotter reported a funnel cloud about 3 miles south of St. Croix.

VIRGINIA, East

Sussex County Newville

**01 1345EST
1600EST** **0 0 0 0** **Flash Flood**

Persistent heavy rain occurred as slow-moving thunderstorms moved across sections of southeast Virginia. The heavy rain caused flooding and forced road closures on Autodam Road near Route 40 in Newville. Heavy rain also caused flooding of Route 10 along the Prince George/Surry county line, at the intersection of Route 671 and Route 35 in Boykins, and on several local roads in eastern Charles City county.

Middlesex County Saluda

**02 2000EST
2100EST** **0 0 0 0** **Flash Flood**

Slow-moving thunderstorms dumped heavy rain over portions of Virginia's Northern Neck and Middle Peninsula and caused flooding at the intersection of Route 17 and Route 33 in Saluda. Numerous secondary roads in Middlesex county were also flooded.

Powhatan County Powhatan

**03 0005EST
0130EST** **0 0 0 0** **Flash Flood**

Slow-moving thunderstorms dumped heavy rain over portions of the eastern Virginia piedmont causing flooding of the intersection of Routes 522 and 60 near Powhatan.

Brunswick County Dolphin

**03 0030EST
0130EST** **0 0 0 0** **Flash Flood**

Slow-moving thunderstorms dumped heavy rain which caused flooding on Planners Road in Dolphin.

Emporia County Emporia

**03 0030EST
0130EST** **0 0 0 0** **Flash Flood**

Slow-moving thunderstorms dumped heavy rain which resulted in flooding at the intersection of Route 58 and Highway 619 near Emporia.

Sussex County Homeville

**03 1945EST
2100EST** **0 0 0 0** **Flash Flood**

Slow-moving thunderstorms dumped heavy rain on portions of southeast Virginia and caused flooding of Route 35 near Homeville.

Norfolk (C) Norfolk

**05 0330EST
0400EST** **0 0 0 0** **Flash Flood**

Heavy rain from slow-moving thunderstorms caused the side of an underpass wall to slide into the road at Granby Street and Interstate 64 resulting in road closure.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, East

VAZ092

Southampton

05 1900EST

0

0

3K

Flood

10 1200EST

Swollen by two weeks of heavy rain, the Nottoway and Blackwater Rivers overflowed their banks. A small boathouse next to the Blackwater River on Burdette Road was flooded and inaccessible. Several county roads were closed due to high water including: Route 653 from Route 719 to Cary's Bridge, Route 619 at the intersection of Route 629, Route 614 from Route 622 to the Isle of Wight county line, and Route 651 (Indian Town Road) from Route 35 at Hancock Peanut to Route 652.

Amelia County

Amelia

14 1900EST

0

0

5K

0

Thunderstorm Wind (G50)

Strong winds from a thunderstorm downed a large tree behind the F&P Enterprises office on Business Route 360. The storm also sent limbs into a sunroom roof and caused minor damage. A lightning bolt struck and damaged a cedar tree in front of the TDS Telecom office on Court Street.

Petersburg (C)

Petersburg

15 0200EST

0

0

10K

Lightning

0230EST

Lightning struck and downed a tree on Millstone Drive. Lightning struck power equipment in a widespread area in Petersburg, Prince George county, and southern Chesterfield county resulting in power outages to about 3,900 Virginia Power customers.

VIRGINIA, Extreme Southwest

NONE REPORTED.

VIRGINIA, North

Fairfax County

Countywide

01 0300EST

0

0

Heavy Rain

0500EST

Madison County

Countywide

01 1500EST

0

0

Heavy Rain

1700EST

Shenandoah County

Countywide

01 1500EST

0

0

Heavy Rain

1700EST

Warren County

Countywide

01 1500EST

0

0

Heavy Rain

1700EST

Isolated showers and thunderstorms produced heavy rainfall across the Shenandoah Valley between 4 and 6 PM EDT on the 1st. At Big Meadows in Shenandoah National Park, 2.83 inches of rain fell. In Shenandoah County, 2.21 inches of rain was recorded at Camp Roosevelt. In Warren County, 2.66 inches fell on Hogback Mountain.

During the early morning hours of the 1st, an isolated thunderstorm dropped heavy rainfall across Fairfax County. A total of 2.74 inches fell in Great Falls and 1.55 inches fell in Herndon. Mt. Weather in western Loudoun County reported 1.55 inches.

Augusta County

Countywide

02 0000EST

0

0

Heavy Rain

0630EST

Rappahannock County

Countywide

02 0100EST

0

0

Heavy Rain

0630EST

Rockingham County

Countywide

02 0100EST

0

0

Heavy Rain

0630EST

Shenandoah County

Countywide

02 0100EST

0

0

Heavy Rain

0630EST

Warren County

Countywide

02 0100EST

0

0

Heavy Rain

0630EST

Highland County

Countywide

02 0200EST

0

0

Heavy Rain

1600EST

Nelson County

Countywide

02 0200EST

0

0


Flash Flood

0600EST

Flooding was reported east of Montebello.

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>VIRGINIA, North</u>									
Alexandria (C) Countywide	02	1230EST 1600EST			0	0			Heavy Rain
Arlington County Countywide	02	1230EST 1600EST			0	0			Heavy Rain
Thunderstorms produced heavy rainfall across a portion of northern Virginia between 1 and 7 AM EDT and again between 5 and 7 PM on the 2nd. The Shenandoah Valley received heavy downpours during the morning event. in Nelson County, flooding was reported from Montebello eastward. A rain gauge in town recorded a total of 4.17 inches. Other rainfall reports included 2.72 inches on Afton Mountain and 1.58 inches at Tye River. Across Augusta County, 2.56 inches fell at Upper Sherando, 2.49 inches fell at Hearthstone Lake, 2.32 inches fell at Mills Creek Dam, 2.12 inches fell at Jones Hollow, and 1.72 inches fell at Elkhorn Lake. In Rockingham County, 1.88 inches was reported at Briery Branch. In Shenandoah County, 2.21 inches fell at Camp Roosevelt. In Warren County, 2.10 inches of rain was reported on Hogback Mountain. In Rappahannock County, 1.99 inches fell in Sperryville. The Washington D.C. suburbs received heavy downpours during the afternoon event. Minor flooding was reported in the vicinity of Commonwealth Avenue, Reed Avenue, and Glebe Road in Alexandria. A total of 1.65 inches of rain fell at Washington National Airport in Arlington County. Highland County reported occasional heavy downpours during the day which resulted in a rainfall total of 1.74 inches in Monterey.									
Albemarle County Northwest Portion	03	0945EST 1200EST			0	0			Flash Flood
Flooding was reported on Route 810 and on Sugar Hollow Road.									
Fredericksburg (C) Countywide	03	1610EST 1800EST			0	0			Flash Flood
Motorists were stranded by rapidly rising water and buildings were flooded.									
Spotsylvania County Countywide	03	1610EST 1800EST			0	0			Flash Flood
Route 17, Route 1, Leavells Road, and Loriella Road were flooded.									
Stafford County South Portion	03	1610EST 1800EST			0	0			Flash Flood
									
<i>Courtesy of the Fredericksburg Free Lance-Star. Photograph by Davis Turner. "Falmouth firefighters help a motorist from her stranded car at the railroad underpass at White Oak and Butler roads"</i>									
Roads were flooded across the southern part of the county.									
Loudoun County Countywide	03	1700EST 1800EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>VIRGINIA, North</u>									
Alexandria (C) Countywide	03	1715EST 1800EST			0	0			Flash Flood
Flooding was reported on King Street. Thunderstorms with heavy rainfall moved across the region from mid morning until early evening on the 3rd. In Albemarle County, torrential downpours caused water contained behind Sugar Hollow Dam to overflow onto Sugar Hollow Road. Roue 810 in the northwest portion of the corner of the county was covered by nearly 2 feet of water. In Stafford County, officials received several reports of road flooding across the southern portion of the county. A vehicle in Falmouth was damaged by flood waters. The city of Fredericksburg was hit especially hard by flash flooding after a total of 2.24 inches of rain fell. Several residents of homes and ground floor apartments reported damaged from rapidly rising water that entered the structures through sewer systems, basement windows, and doors. Several motorists had to be rescued from their cars after driving into flooded sections of roadway. Some cars were submerged up to their windshields in water. High water blocked access to Mary Washington Hospital. A 4-foot-deep sinkhole appeared along Snowden Hills Boulevard after the deluge. Across Spotsylvania County, Route 17, Route 1, Leavells Road, and Loreilla Road were flooded. A spotter near the intersection of Route 1 and Route 208 reported a total of 2.6 inches of rain. In only 50 minutes, a total of 2.5 inches fell at the Spotsylvania County Courthouse. In Loudoun County, a total of 1.90 inches fell in Lincoln. In Alexandria, flooding was reported on King Street.									
Albemarle County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Augusta County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Charlottesville (C) Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Culpeper County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Fairfax County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Fauquier County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Loudoun County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Madison County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Orange County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Page County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Rappahannock County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Shenandoah County Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Staunton (C) Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Winchester (C) Countywide	19	0000EST 1900EST			0	0			Heavy Rain
Frederick County Countywide	19	1100EST 1400EST			0	0			Flash Flood

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
VIRGINIA, North									
Warren County Countywide	19	1100EST 1400EST			0	0			Flash Flood
Several roads were flooded after Happy Creek overflowed its banks. The remnants of Tropical Storm Gordon moved across the northern half of Virginia on the 19th. Rainfall amounts between 1 and 4.5 inches were recorded. In Frederick County, 2.17 inches fell in Winchester, 1.83 inches fell at Star Tannery, and 1.81 inches was reported in Gore. Isaac Creek near Cross Junction overflowed its banks and flooded Route 689. In Warren County, rainfall totals included 4.30 inches on Hogback Mountain, 3.64 inches in Browntown, 3.04 inches at Manassas Gap, 2.88 inches at Chester Gap, 2.81 inches in Front Royal, 2.80 inches in Limeton, and 2.12 inches in Neneveh. Happy Creek overflowed its banks in Front Royal and flooded Eighth Street. Across the county, Ritenour Hollow Road and Oregon Hollow Road were closed by high water. In Fauquier County, 1.80 inches fell in Warrenton. In Loudoun County, 2.49 inches was recorded in Lincoln. Dulles International Airport broke the daily rainfall record after 1.24 inches fell. In Fairfax County, 2.30 inches was reported in Centreville and 2.02 inches fell in Fairfax. In Prince William County, up to 2.45 inches was recorded in Woodbridge.									
In Page County, 4.38 inches fell at Rocky Branch, 2.79 inches fell at Big Meadows, 2.20 inches fell at Lewis Mountain Camp, and 1.92 inches fell at Skyland. In Shenandoah County, rainfall totals included 3.59 inches at Detrick, 3.24 inches at Camp Roosevelt, 3.04 inches in Strasburg, 2.72 inches in Woodstock, 2.64 inches at Zepp, 2.44 inches at Fetzer Gap, 2.24 inches at Tumbling Run, 2.09 inches in New Market, and 1.63 inches in Edinburg. High water was reported on Route 11 south of Woodstock. In Madison County, rainfall totals included 3.22 inches at Syria, 2.72 inches on Route 29 near Robinson Road, 2.19 inches in Hood, and 1.76 inches in Nethers. In Rappahannock County, 3.5 inches was reported in Castleton, 3.33 inches fell in Sperryville, 2.83 inches fell in Washington, and 2.62 inches fell at Massie's Corner. In Culpeper County, 2.87 inches was reported in Boston. In Orange County, 1.62 inches was reported in Somerset. In Albemarle County, 1.88 inches fell at McCormic Observatory and 1.77 inches fell in Charlottesville. In Augusta County, rainfall totals included 3.04 inches in Sherando, 2.84 inches in Spottswood, 2.28 inches in Middlebrook, 2.20 inches in Staunton, 2.00 inches at Stoney Creek, and 1.80 inches at Toms Branch and Upper Sherando.									
Alexandria (C) Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Arlington County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Augusta County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Clarke County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Culpeper County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Fairfax County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Fairfax (C) Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Falls Church (C) Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Fauquier County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Frederick County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Fredericksburg (C) Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Highland County Countywide	24 25	1200EST 1800EST			0	0			Heavy Rain
Loudoun County Countywide	24	1200EST 1800EST			0	0			Heavy Rain

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, North</u>									
Madison County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Manassas (C)									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Manassas Park (C)									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Page County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Prince William County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Rappahannock County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Rockingham County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Shenandoah County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Stafford County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Warren County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Winchester (C)									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							

Showers and thunderstorms developed over the northern half of Virginia as a moist tropical airmass covered the region. Between midday on the 24th through the evening of the 25th, between 1 and 3 inches of rain fell. In Frederick County, 2.02 inches of rain was reported in Gore, 1.91 inches fell in Star Tannery, and 1.60 inches fell southeast of Winchester. In Clarke County, 1.68 inches of rain fell at Mount Weather on the Loudoun County border. In Loudoun County, rainfall totals included 2.57 inches at Dulles International Airport, 2.34 inches in Sterling, 1.93 inches in Leesburg, and 1.77 inches in Lincoln. In Fairfax County, rainfall totals included 2.75 inches in Centreville, 2.65 inches in Herndon, 2.49 inches in Mt. Vernon, 2.46 inches in Great Falls and Vienna, 2.45 inches at Ft. Belvoir, 2.32 inches in Reston, and 2.28 inches in Annandale. In Alexandria, rainfall amounts averaged around 2.5 inches. In Falls Church, 2.83 inches of rain was reported. In Arlington County, 2.93 inches of rain fell in Arlington and 2.14 inches was reported at Washington National Airport. In Prince William County, 2.45 inches fell at Lake Jackson. An average of 2.5 inches was reported in Manassas and Manassas Park. In Stafford County, rainfall totals were estimated between 2 and 3 inches. A total of 2.15 inches was recorded in Fredericksburg. In Fauquier County, 2.63 inches fell at The Plains and 2.40 inches was recorded in Remington.

In Warren County, rainfall totals included 2.52 inches at Hogback Mountain, 2.32 inches at Chester Gap, 2.28 inches at Manassas Gap, 2.16 inches at Browntown, 2.04 inches at Front Royal, 1.64 inches in Limeton, and 1.52 inches in Nineveh. In Shenandoah County, rainfall totals included 3.04 inches in Zepp, 2.32 inches at Mt. Olive, 2.28 inches at Camp Roosevelt, 2.16 inches at Detrick, 2.04 inches in Strasburg, 1.86 inches in New Market, 1.80 inches in Woodstock, and 1.60 inches in Edinburg. In Page County, rainfall totals included 2.64 inches at Rocky Branch, 2.24 inches at Big Meadows, 2.08 inches in Ida, and 1.92 inches at Lewis Mountain Camp. In Rappahannock County, 2.1 inches was reported in Castleton, 1.93 inches fell at Massie's Corner, and 1.88 inches fell in Sperryville. In Culpeper County, 2.29 inches fell in Boston and 1.90 inches fell in Culpeper. In Madison County, rainfall totals included 2.60 inches in Syria, 2.28 inches in Nethers, and 1.64 inches in Hood. In Rockingham County, totals included 3.20 inches on Dundore Mountain, 3.08 inches at Briery Branch, 2.60 inches on Long Run Road, 1.92 inches in Cootes Store, and 1.80 inches in Lynwood. In Augusta County, 2.04 inches fell at Hearthstone Lake, 1.84 inches fell at Stoney Creek, 1.64 inches fell at Upper Sherando, and 1.60 inches was recorded at Stuart's Draft. In Highland County, 4.52 inches fell in Monterey, 2.36 inches fell in McDowell, 2.32 inches was recorded in Hightown, and 2.30 inches fell at Mill Gap.

VIRGINIA, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
VIRGINIA, Southwest									
Rockbridge County 7 SW Lexington to 5 SW Lexington	01	0000EST 0200EST			0	0	3K		Flash Flood
Bedford County South Portion	01	0200EST 0500EST			0	0			Flash Flood
Rockbridge County South Portion	01	0200EST 0600EST			0	0			Flash Flood
Heavy thunderstorm rains during the morning of the 1st caused flash flooding.									
Several small streams flooded from 7 miles southwest of Lexington to 5 miles southwest of Lexington, closing Route 611 and flooding a basement. Carter Mill Creek flooded and washed out parts of Route 734 and Route 630 in the south portion of Bedford County.									
Several small streams flooded in the south portion of Rockbridge County, closing several roads.									
Danville (C) Danville to 1 E Danville	01	1300EST 1415EST			0	0			Flash Flood
Heavy thunderstorm rains flooded and closed several streets 1 mile east of Danville.									
Rockbridge County Glasgow	02	0100EST 0600EST			0	0	10K		Flash Flood
Rockbridge County South Portion	02	0130EST 0600EST			0	0			Flash Flood
Amherst County Pedlar Mills	02	0345EST 0530EST			0	0			Flash Flood
Amherst County 1.5 S Lowesville	02	0400EST 0530EST			0	0			Flash Flood
Heavy thunderstorm rains during the early morning of the 2nd flooded and closed the intersection of Eighth Street and Rockbridge Road, and washed out 2 driveways in Glasgow. The first floor of one home in Glasgow was also flooded resulting in damage.									
Heavy rain in the southern part of Rockbridge County caused several small streams to flood, closing some roads.									
In Amherst County, heavy rain caused Maple Run to flood onto Route 665, one and a half miles south of Lowesville, and the Pedlar River to flood Route 635 near Pedlar Mills.									
Pulaski County 9 E Pulaski to 10.5 E Pulaski	02	1303EST			0	0			Flash Flood
Pulaski County 6.5 S Pulaski	02	1320EST 1400EST			0	0			Flash Flood
Franklin County Rocky Mt	02	1340EST 1415EST			0	0			Flash Flood
Bath County Hot Spgs to 2 NE Hot Spgs	02	1730EST 1900EST			0	0			Flash Flood
Lynchburg (C) Lynchburg	02	1800EST 1915EST			0	0			Flash Flood
Pittsylvania County Southwest Portion	02	2045EST 2330EST			0	0			Flash Flood

Heavy thunderstorm rains during the afternoon and evening of the 2nd produced flash flooding.

Heavy thunderstorm rains flooded and closed Franklin Street in Rocky Mount, caused creeks to flood from 9 miles east of Pulaski to 10.5 miles east of Pulaski closing several roads, washed out a culvert damaging Route 609, 6.5 miles south of Pulaski, flooded and closed several roads in Lynchburg, and flooded and closed parts of Route 220 from Hot Springs to 2 miles northeast of Hot Springs.

Heavy thunderstorm rains in the southwest portion of Pittsylvanina County caused streams to flood and close several roads.

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
<u>VIRGINIA, Southwest</u>									
Botetourt County 1 S Oriskany to 3 S Oriskany	03	1415EST 1600EST			0	0		Flash Flood	
Lynchburg (C) Lynchburg	03	1515EST 1645EST			0	0		Flash Flood	
Pulaski County 9 E Pulaski to 11 E Pulaski	03	1615EST 1715EST			0	0		Flash Flood	
Heavy thunderstormain rain during the afternoon of the 3rd caused flash flooding.									
Heavy rain caused small streams and creeks to flood from 9 miles east of Pulaski to 11 miles east of Pulaski, Blackwater Creek to flood and close Hollins Mill Road in Lynchburg, and several creeks to flood from 1 mile south of Oriskany to 3 miles south of Oriskany.									
Franklin County 8 SW Penhook	03	1740EST 1830EST			0	0		Flash Flood	
Franklin County 9 SW Penhook	03	1740EST 1830EST			0	0		Flash Flood	
Heavy thunderstorm rains caused Guthrie Branch to flood Route 632, nine miles southwest of Penhook and caused Finney Branch to flood 8 miles southwest of Penhook.									
<u>WASHINGTON, Northeast</u>									
NONE REPORTED.									
<u>WASHINGTON, Northwest</u>									
Pierce County Bonney Lake	03	1630PST			0	1	1.5K	Lightning	
Lightning struck a maple tree, then the man who owned the tree went outside to examine the damage, when a second lightning strike hit near the tree, traveled through the ground and shocked him. He suffered burns to his head, chest and feet, while the first lightning strike damaged electrical equipment inside the home.									
<u>WASHINGTON, Southeast</u>									
WAZ027 Yakima Valley	08	1330PST			0	0	5K 0	High Wind (G34) ^M	
Gusty winds early in the afternoon blew several trees onto power lines, cutting power to around 50 homes in Wiley. The ASOS sensor at the Yakima Airport, located 6 miles to the east of Wiley, recorded sustained winds of 30 mph with gusts around 39 mph. The power outage, which included the Ahtanum Valley Elementary School, lasted around one hour.									
<u>WASHINGTON, Southwest</u>									
NONE REPORTED.									
<u>WEST VIRGINIA, East</u>									
Hampshire County Countywide	01	1400EST 1700EST			0	0		Heavy Rain	
An isolated thunderstorm produced heavy rainfall across Hampshire County between 3 and 6 PM EDT on the 1st. Doppler radar estimated 2 to 3 inches of rainfall across the county.									
Berkeley County Countywide	02	1200EST 1500EST			0	0		Heavy Rain	
A cluster of thunderstorms that produced heavy rainfall moved across the far eastern portion of the panhandle during the afternoon of the 2nd. A total of 2.29 inches of rain was recorded at the Martinsburg Municipal Airport.									
Hardy County Countywide	03	1100EST 1500EST			0	0		Heavy Rain	
Jefferson County Countywide	03	1100EST 1500EST			0	0		Heavy Rain	
Scattered thunderstorms with heavy downpours moved slowly across the Eastern Panhandle around midday on the 3rd. In Jefferson County, localized flooding of roads and small creeks was reported around the Shannondale Subdivision off Route 9. In Hardy County, a total of 2.00 inches of rain was recorded in Wardensville.									
Berkeley County Countywide	19	0000EST 1900EST			0	0		Heavy Rain	

Storm Data and Unusual Weather Phenomena

September 2000

									September 2000
		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		
Location	Date				Killed	Injured	Property	Crops	Character of Storm

WEST VIRGINIA, East

The remnants of Tropical Storm Gordon crossed the Eastern Panhandle on the 19th and produced locally heavy rainfall. In Berkeley County, a total of 1.82 inches of rain was reported.

Berkeley County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Grant County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Hampshire County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Hardy County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Jefferson County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Mineral County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Morgan County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							
Pendleton County									
Countywide	24	1200EST			0	0			Heavy Rain
	25	1800EST							

Showers and thunderstorms developed over the Eastern Panhandle as a moist tropical airmass covered the region. Between midday on the 24th through the evening of the 25th, between 1 and 2 inches of rain fell. In Jefferson County, 1.87 inches was recorded in Charles Town. In Berkeley County, 1.82 inches fell in Martinsburg. In Morgan County, rainfall amounts included 2.01 inches in Berkeley Springs and 1.80 inches at Cacapon Park. In Mineral County, 2.02 inches fell in Keyser and 1.70 inches was recorded in Headsville. In Hampshire County, 1.64 inches fell in Romney. In Grant County, 2.12 inches fell in Bayard and 1.73 inches was recorded in Petersburg. In Hardy County, rainfall amounts included 2.10 inches in Mathias, 1.76 inches in Moorefield, and 1.51 inches in Wardensville. In Pendleton County, 2.17 inches was reported in Franklin.

WEST VIRGINIA, North

Marshall County									
Pleasant Vly	01	1800EST			0	0			Flood

Heavy thunderstorm rains produced minor flooding on County Road 46 in the Pleasant Valley area.

WEST VIRGINIA, Southeast

Mercer County									
Bluefield	02	1528EST			0	0			Flash Flood
		1615EST							

Heavy rain caused street flooding in Bluefield. Four cars were stalled in the flooding at College Avenue and Stadium Drive.

WEST VIRGINIA, West

WVZ037>039-047	Nicholas - Webster - Upshur - Randolph								
	01	0000EST			0	0			Monthly Precipitation
	30	2300EST							

Rainfall of 5 to 9 inches was common in these mountainous counties. The 8.87 inches measured at Elkins was the most for any September since records began in 1899. The previous record was 7.52 inches back in 1988. Pickens had 8 inches of monthly rainfall, Gladys and Birch River recorded 7.7 inches, while 7.4 inches fell at Hacker Valley. Most of the rain fell on just 4 days, the 10th and 11th, then again on the 24th and 25th. Normal rainfall is 3.5 to 4 inches.

Raleigh County									
Shady Spg to Beckley	02	1730EST			0	0	150K		Flash Flood
		1930EST							

The cooperative observer in Beckley measured 3.1 inches of rain. About a dozen homes in Beckley received damage, with 2 homes on Harley Avenue having about 7 feet of water in their basement. Streams around Beaver and Shady Springs also flooded. Route 16 was flooded toward Mabscoff. The state funded individual and family grant program had 15 applicants from Raleigh County.

Roane County									
2 E Spencer to Amma	02	1750EST			0	0	75K		Flash Flood
		1930EST							

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WEST VIRGINIA, West

One resident along Boggs Run measured 3 inches of rain in just an hour. Nearby, Slate Run also flooded. Water got into basements and a number of private bridges were damaged. In the southern portion of the county, a family of 5 was trapped inside their conversion van, as water from Cottontree Run rose very rapidly. A tow truck was able to get a cable hooked to the van, just before it began to float away. The vehicle and passengers were pulled to safety. Afterwards, the tow truck had to be rescued by another tow truck. Two county dwellings had minor water damage.

Kanawha County 2 NW Belle

02	1755EST 2000EST	0	0	500K	Flash Flood
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A downpour fell in the vicinity of Malden Mountain, between 1730 and 1900E. This affected the right fork of Burning Spring Branch. A resident near the junction of the 3 forks, measured 4.2 inches of rain in 90 minutes. Water flowed off the steep hillside and into a few homes along the right fork. Private culverts, that were over driveways, could not handle the water. The culverts were damaged. Water rose over these culverts, into yards and around some homes. After Burning Spring Branch flowed under Route 60, it flooded Williams Ave., First Ave., and Main Street in Dupont City. The one long culvert that goes under a drug store, had a high dirt bank around it. This prevented the water to flow over the culvert. This caused severe flooding upstream of that culvert. Homes had 3 to 4 feet of water on their lower floor. Two single family homes were destroyed. On the order of 40 to 50 homes had major to minor water damage. Nearby streams, such as Georges Creek, had minor overflow.

Harrison County Clarksburg

02	1815EST 1900EST	0	0	5K	Flash Flood
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Small streams overflowed onto roads. Minor basement flooding also occurred..

Boone County Jeffrey

02	1930EST 2030EST	0	0	10K	Flash Flood
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Small tributaries of Spruce Fork flooded, but caused only minor road damage.

A hot and humid day saw plenty of afternoon sunshine in the Charleston to Beckley region. Surface dew points were in the low and mid 70s. Thunderstorms from the north and east developed inward during the late afternoon, toward Charleston. This produced localized cloudbursts.

Governor Cecil Underwood declared a state of emergency in Kanawha, Raleigh, and Roane Counties. This proclamation allowed the governor to use state personnel and equipment to help in the clean-up. It took 2 weeks to clear the debris from Dupont City.

Mason County New Haven

20	2212EST	0	0		Thunderstorm Wind (G52)
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A wind gust was estimated at 60 mph.

Tyler County Countywide

20	2300EST 2305EST	0	0	5K	Thunderstorm Wind
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Scattered locations had county roads blocked by fallen trees.

Ritchie County Auburn

20	2305EST	0	0	2K	Thunderstorm Wind
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Trees were down along Route 7/20.

Kanawha County Charleston to Malden

20	2330EST	0	0	5K	Wind
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Wind gusts estimated at 40 to 45 mph, damaged a mobile home in Malden. A tree fell onto a car in the East End of Charleston.

WISCONSIN, Extreme Southwest

NONE REPORTED.

WISCONSIN, Northeast

Manitowoc County Kiel

01	2233CST	0	0		Hail (0.75)
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Wood County 2.5 N Nekoosa

01	2315CST	0	0		Hail (1.00)
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Thunderstorms developed in central and east central Wisconsin as moist and unstable air interacted with a frontal boundary. Dime to quarter size hail was reported with isolated severe storms in Nekoosa (Wood co.) and Kiel (Marathon co.).

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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WISCONSIN, Northeast

Door County Sturgeon Bay

03 0230CST

0 0

Thunderstorm Wind (G50)

A cluster of thunderstorm moved across northeast and east central Wisconsin during the early morning hours of September 3rd. The storms produced heavy rains and strong winds. Winds from the storms knocked tree limbs onto power lines in Sturgeon Bay (Door co.).

Outagamie County 2 N Darboy

10 0453CST

0 0

Hail (1.00)

Outagamie County 2 N Darboy

10 0453CST

0 0

Thunderstorm Wind (G63) ^M

A line of thunderstorms moved through east central Wisconsin during the early morning hours of September 10th. An isolated severe cell produced one inch hail and wind gusts to 72 mph near Darboy (Outagamie co.).

Vilas County

Lac Du Flambeau Marathon County

10 2214CST

0 0

Hail (1.00)

10 NE Athens

10 2319CST

0 0

Thunderstorm Wind (G60)

Marathon County

10 NNW Wausau

10 2340CST

0 0

Thunderstorm Wind (G60)

Lincoln County

Harrison

10 2344CST

0 0

Thunderstorm Wind (G55)

Marinette County

Niagara

11 0025CST
0040CST

0 0

Urban/Sml Stream Fld

Elevated thunderstorms developed across north central Wisconsin near a stalled front. These storms produced hail, damaging winds and heavy rains as they moved through north central Wisconsin. A building was reportedly blown down by high winds around Hamburg (Marathon co.). Heavy rains from the storms produced street flooding in Niagara (Marinette co.).

Marathon County 1 N Stratford

11 0917CST
1517CST

0 0

Flood

The Big Eau Pleine River near Stratford (Marathon co.) experienced minor flooding on September 11th due to heavy rains from thunderstorms that passed through the area the preceding night. The crest of 15.0 feet occurred at 11:00 A.M. CST. Flood stage there is 14.0 feet.

Lincoln County

2 N Spirit Falls

11 1635CST

0 0

Hail (0.75)

Oneida County

10 NE Mc Cord

11 1638CST

0 0

Hail (1.00)

Lincoln County

Bradley

11 1640CST

0 0

Thunderstorm Wind (G50)

Lincoln County

Tomahawk

11 1645CST
1715CST

0 0

Urban/Sml Stream Fld

Lincoln County

Tomahawk

11 1650CST

0 0

Thunderstorm Wind (G50)

Lincoln County

5 NW Tomahawk

11 1650CST

0 0

Thunderstorm Wind (G50)

Oneida County

Rhineland

11 1650CST

0 0

Hail (1.00)

Oneida County

Rhineland

11 1650CST

0 0

Thunderstorm Wind (G50)

Oneida County

Three Lakes

11 1710CST

0 0

Thunderstorm Wind (G55)

Forest County

1 S Alvin

11 1730CST

0 0

Thunderstorm Wind (G50)

Forest County

17 N Crandon

11 1730CST

0 0

Thunderstorm Wind (G60)

Forest County

Nelma

11 1730CST

0 0

Hail (0.88)

Florence County

Long Lake

11 1735CST

0 0

Thunderstorm Wind (G55)

Forest County

Crandon

11 1740CST

0 0

Thunderstorm Wind (G50)

Marinette County

Niagara

11 1815CST

0 0

Thunderstorm Wind (G50)

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Northeast

Marinette County									
10 W Middle Inlet	11	1835CST			0	0			Thunderstorm Wind (G50)
Marinette County									
Middle Inlet	11	1848CST			0	0			Thunderstorm Wind (G50)
Door County									
Egg Harbor	11	1934CST			0	0			Thunderstorm Wind (G50)

Thunderstorms developed in an area of strong lift and unstable air along a cold front. Severe storms produced a few reports of large hail, up to quarter size, but wind damage was much more common. Trees and power lines were downed by high winds across much of north central and northeast Wisconsin and about 10,000 customers lost electrical power during the night in the Eagle River (Vilas co.), Rhinelander (Oneida co.) and Tomahawk (Lincoln co.) areas. Heavy rainfall from the storms caused some minor street flooding in Tomahawk.

WISCONSIN, Northwest

NONE REPORTED.

WISCONSIN, Southeast

Sauk County									
3 NW La Valle	01	1330CST			0	0			Hail (1.00)
Sauk County									
5 W Lake Delton	01	1355CST			0	0			Hail (0.75)
Marquette County									
3 W Endeavor	01	1500CST			0	0	1K		Thunderstorm Wind
Columbia County									
Poynette to Arlington	01	1545CST 1548CST			0	0			Hail (0.75)

Two clusters of severe thunderstorms moved east/southeast across south-central Wisconsin during the mid to late afternoon hours. Damaging straight-line winds downed large trees near Endeavor (Marquette Co.), and produced large hail elsewhere in Sauk and Columbia Counties. The second, and later, cluster of storms transformed into a single line about 10 to 15 miles wide as it moved through eastern Sauk, all of Columbia, and northern Dane County. As it propagated and developed to the southeast, cloud base rotation was noted by several spotters in southern Columbia County. Cloud-base rotation was also noted in an isolated storm over northern Dane County. However, the surface outflow coupled with a west-east orientated cold front which was sliding south. This frontal boundary pushed 10 miles south of the main updraft tower, thus robbing the storm of low-level vorticity needed to spin up a vortex at ground level. Mesocyclones were observed on the Milwaukee/Sullivan WSR-88D Doppler radar.

Marquette County									
Germania	02	0250CST			0	0			Hail (0.75)
Fond Du Lac County									
Fond Du Lac	02	0400CST			0	0	75K		Lightning

An isolated severe thunderstorm pulsed up over Marquette County and produced large hail. Elsewhere, a cluster of thunderstorms moved through the city of Fond du Lac and produced lightning strikes. One lightning bolt struck the communications tower on the Fond du Lac courthouse. The tower was damaged and some bricks on the side of the building were knocked loose. Several radio receivers, phone lines for the 911 Center, and a radar display system were also damaged.

WIZ063-066

Dane - Milwaukee

	11	0000CST 2359CST			0	0			Record Rainfall
Racine County									
Union Grove to Racine	11	1045CST 1230CST			0	0			Urban/Sml Stream Fld
Walworth County									
1 W Walworth	11	1230CST			0	0	10K		Lightning
Walworth County									
Whitewater to La Grange	11	1545CST 1555CST			0	0	10K		Thunderstorm Wind
Milwaukee County									
Milwaukee	11	1615CST			0	0	30K		Lightning
Lafayette County									
Belmont to Shullsburg	11	1630CST 1640CST			0	0	20K		Hail (1.00)
Lafayette County									
Lamont	11	1655CST			0	0	2K		Thunderstorm Wind
Green County									
3 W Monroe	11	1710CST			0	0			Funnel Cloud
Green County									
Browntown	11	1715CST			0	0	2K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

September 2000

		Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		September 2000
Location	Date				Killed	Injured	Property	Crops	Character of Storm
<u>WISCONSIN, Southeast</u>									
Lafayette County									
South Wayne	11	1715CST			0	0	30K		Lightning
Dane County									
Madison to Maple Bluff	11	1725CST 1728CST			0	0			Hail (1.00)
Green County									
Monticello	11	1730CST			0	0	10K		Hail (1.50)
Dane County									
Oregon	11	1733CST			0	0			Hail (0.75)
Lafayette County									
7.5 N Argyle	11	1740CST 1930CST			0	0	10K		Flash Flood
Jefferson County									
1 W Jefferson	11	1810CST			0	0			Hail (0.88)
Dane County									
Madison Truax Arpt	11	1835CST			0	0			Thunderstorm Wind (G64) ^M
Waukesha County									
Waukesha	11	1840CST			0	0	3K		Thunderstorm Wind
Green County									
Monroe	11	1900CST 2100CST			0	0	100K		Flash Flood
Milwaukee County									
Milwaukee	11	1900CST			0	0	2K		Thunderstorm Wind
Marquette County									
2 N Westfield	11	1915CST			0	0	2K		Thunderstorm Wind
Rock County									
Johnstown	11	1915CST			0	0			Hail (1.00)
Green County									
Monroe	11	1930CST			0	0	2K		Thunderstorm Wind
Walworth County									
2 N Elkhorn	11	1930CST			0	0	2K		Thunderstorm Wind
Green Lake County									
Princeton	11	1950CST			0	0			Hail (1.00)
Milwaukee County									
Wauwatosa to Milwaukee	11	2000CST 2300CST			0	0	100K		Flash Flood
Kenosha County									
Kenosha	11	2030CST 2035CST			0	0	10K		Hail (1.00)
Waukesha County									
Waukesha	11	2115CST 2359CST			0	0	50K		Flash Flood

Three rounds of severe thunderstorms affected parts of south-central and southeast Wisconsin on September 11, 2000:

1) The 1st round consisted of a cluster of storms that produced damaging straight-line winds in Walworth County. Several reports of toppled large trees originated from the Whitewater to La Grange area down to the Richmond area.

2) The second round started off as a cluster of storms over northeast Iowa which moved into southwest Wisconsin. This cluster transformed into a solid line of storms, some severe, as it moved east through south-central Wisconsin. Eventually this line extended from northern Dane County south to the Illinois border as it moved east. A well-defined outflow boundary/gust front, marked at cloud base by a dramatic shelf cloud, developed about 5 to 15 miles out ahead of the line of storms. Peak winds were in the 26 to 44 knot (30 to 50 mph) range in the area behind the surface gust front position, while damaging winds in excess of 50 knots (58 mph) were found near and behind the most intense rainfalls. The storms produced damaging straight-line winds which toppled many trees and a few power lines, large hail stones up to 1.50 inches in diameter, intense lightning strikes, and torrential rainfalls of 2 to 4 inches, which resulted in flooding, flash flooding, or urban/small stream flooding. Interestingly, the downburst winds on the back (west) side of the most intense cells peaked in the 58 to 64 knot range (58 to 74 mph) in isolated spots, one of them being Madison's Truax Field. The peak gust at that location was from the southeast (150 degrees).

Torrential downpours, estimated at 3 to 4 inches within 1 to 2 hours based on WSR-88D Doppler radar, caused a flash flood, and resultant mudslide, a few miles north of Argyle (Lafayette Co.) on Highway 78 just outside of Blanchardville, temporarily closing that road. Similar amounts fell across Green County just to the east. Scattered flash flooding was reported in Green County which resulted in gravel shoulder washouts on some roads, and significant flooding of low-lying roads, basements, and businesses, especially in and around Monroe. Amateur Radio operators (Hams) measured 3.60 inches of rain in Brodhead, and 3.56 inches in

Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

New Glarus, both in Green County. As the solid line of storms moved east, it produced additional flash flooding in and around the city of Waukesha (Waukesha Co.). Water depths on roads reached 2 to 4 feet, and gravel shoulder washouts were noted, especially from north of the city to the southwest side. Further east in Milwaukee County, flash flooding stranded numerous motor vehicles, especially around 92nd and Hampton in Milwaukee. Residential home and city park landscaping were damaged by the flood waters. The Menomonee River in Wauwatosa crested 1.71 feet above the 11 foot flood stage at 2130CST. There were reports of 2 to 4 feet water depths on some roads in northern Milwaukee County. A Ham at 82nd and Congress in the city of Milwaukee measured a rainfall of 2.76 inches. Several other mainstream rivers in south-central and southeast Wisconsin rose to bankfull or exceeded flood stage by 1 foot or less.

Besides some large trees toppled by thunderstorm winds in the city of Kenosha (Kenosha Co.), the hail that fell in the city covered the ground white. Lightning struck and killed 14 beef cattle on Meyer Road near the South Wayne village limits (Lafayette Co.). Lightning also struck a residential home just west of the village of Walworth (Walworth Co.), resulting in a fire that damaged the roof and attic. The same thing happened to a city of Milwaukee home on 97th Ave. In Racine County on Interstate-94, the torrential rains reduced visibility to less than 50 yards, forcing motor vehicles to pull to the side of the road.

Madison (Dane Co.) registered 1.71 inches of rain on the 11th, breaking the old daily precipitation record of 1.57 inches set in 1879. Likewise, Milwaukee measured 2.96 inches of rain, breaking the old daily precipitation record of 1.73 inches set in 1933.

3) The 3rd round of severe storms affect the counties of Marquette and Green Lake. Isolated, damaging straight-line winds and some large hail were produced by a solid line of thunderstorms which diminished in strength and broke up as they moved into Fond du Lac and Sheboygan counties.

Synoptically, a surface low pressure over Sioux Falls, SD in the early morning hours moved east/northeast to near Green Bay by 2200CST. South winds ahead of the low pressure pulled moist air, with surface dewpoints in the lower 70s, into southern Wisconsin. The unstable air (CAPES 2500 and LI's -6 to -8) and right rear quadrant region of the jet streak led to the pre-cold-frontal thunderstorms during the afternoon hours. A trailing cold front then pushed east during the evening hours reaching a Green Bay to Madison line by 2200CST.

Kenosha County

Kenosha	22	2230CST			0	0			Urban/Sml Stream Fld
	23	2230CST							

Milwaukee County

West Allis to	22	2230CST			0	0			Urban/Sml Stream Fld
Franklin	23	0200CST							

Racine County

North Cape to	22	2230CST			0	0			Urban/Sml Stream Fld
Racine	23	2230CST							

Intense rainfalls of 1 to around 2.50 inches resulted in urban and small stream flooding over parts of southeast Wisconsin. Water depths on some low-lying roads reached 6 to 12 inches. Water levels in several small streams briefly exceeded bankfull by a foot or less. Two separate rounds of thunderstorms were responsible for the flooding. An Amateur Radio operator near State Fair Park in West Allis measured a rainfall of 2.05 inches.

WISCONSIN, Southwest

Juneau County

Elroy	01	1318CST			0	0	1K		Hail (0.75)
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Adams County

6 SW Adams	01	1400CST			0	0	2.5K		Thunderstorm Wind (G65)
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Adams County

2 N Easton	01	1407CST			0	3	50K		Thunderstorm Wind (G65)
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Winds estimated at 75 mph completely destroyed one mobile home, while flipping another on its top at Edgewood Estates in central Adams County. Two small children and an elderly woman sustained minor injuries. There were numerous large trees blown down nearby and to the west toward County Road Z.

Jackson County

North Bend	03	0155CST			0	0	1K		Hail (0.75)
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Monroe County

Warrens	03	0250CST			0	0	0.75K	5K	Hail (0.75)
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Juneau County

Elroy	03	0300CST			0	0	7K		Thunderstorm Wind (G52)
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Dime size hail and estimated wind gusts of 60 mph were reported by spotters and law enforcement officials.

Buffalo County

5 E Fountain City	10	2108CST			0	0			Hail (0.75)
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Taylor County

Bellinger	10	2110CST			0	0	0.80K		Thunderstorm Wind (G52)
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Trempealeau County

Arcadia	10	2133CST			0	0	0.75K		Hail (0.75)
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Storm Data and Unusual Weather Phenomena

September 2000

										September 2000
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm	
					Killed	Injured	Property	Crops		
<u>WISCONSIN, Southwest</u>										
Trempealeau County										
Arcadia	10	2147CST			0	0	6K		Hail (1.00)	
Buffalo County										
Montana	10	2200CST			0	0		10K	Hail (1.00)	
Trempealeau County										
Independence	10	2200CST			0	0		2.5K	Hail (0.75)	
Buffalo County										
6 S Mondovi	10	2210CST			0	0		3K	Hail (0.75)	
Clark County										
Owen	10	2250CST			0	0	5K		Thunderstorm Wind (G53)	
Taylor County										
Lublin	10	2251CST			0	0	1.5K		Thunderstorm Wind (G54)	
Clark County										
Greenwood	11	0020CST			0	0	0.50K		Thunderstorm Wind (G52)	
Vernon County										
Hillsboro	11	0455CST			0	0			Hail (0.75)	
Richland County										
Richland Center	11	0528CST			0	0		2.5K	Hail (0.75)	
Hail the size of dimes and quarters was reported by spotters and law enforcement officials. In addition, wind gusts of 60 to 65 mph knocked down trees and power lines.										
Clark County										
North Portion	11	0230CST 0400CST			0	0	15K	25K	Flash Flood	
Taylor County										
South Portion	11	0230CST 0400CST			0	0	8K	15K	Flash Flood	
Rainfall amounts of 2.5 to 5.5 inches in less than three hours caused flash flooding. Law enforcement officials reported several county roads under water.										
Grant County										
4 W Cuba City	11	1540CST			0	0	7.5K	18K	Hail (1.00)	
Grant County										
1 N Cuba City	11	1540CST			0	0	10K	25K	Hail (1.25)	
Grant County										
Ellenboro	11	1555CST			0	0		2.5K	Hail (0.75)	
Grant County										
Dickeyville	11	1600CST			0	0	0.80K		Hail (0.75)	
Grant County										
Kieler	11	1600CST			0	0	3.5K		Thunderstorm Wind (G52)	
Grant County										
Dickeyville	11	1608CST			0	0	8.5K		Thunderstorm Wind (G52)	
Grant County										
Dickeyville	11	1610CST			0	0	6.5K		Thunderstorm Wind (G52)	
Taylor County										
3 E Perkinstown	11	1610CST			0	0			Thunderstorm Wind (G52)	
Buffalo County										
6 SE Fountain City	11	1615CST			0	0	4.5K		Hail (1.00)	
Grant County										
3 E Dickeyville	11	1620CST			0	0	25K	18K	Thunderstorm Wind (G55)	
Grant County										
Big Patch	11	1624CST			0	0	10.5K		Thunderstorm Wind (G54)	
Trempealeau County										
Ettrick	11	1634CST			0	0	10K	20K	Hail (1.75)	
Trempealeau County										
2 S Arcadia	11	1645CST			0	0			Hail (0.75)	
Trempealeau County										
Blair	11	1655CST			0	0		12K	Hail (1.00)	
Clark County										
Greenwood	11	1700CST			0	0		2.5K	Hail (0.75)	
Grant County										
Potosi	11	1700CST			0	0	12.5K	10K	Thunderstorm Wind (G55)	
Jackson County										
4 NW Black River Falls	11	1730CST			0	0			Hail (0.75)	

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
WISCONSIN, Southwest									
Monroe County 1 N Sparta	11	1750CST			0	0	7.5K		Hail (0.88)
Juneau County 1 N (Vok)Volk Aaf Cam	11	1829CST			0	0			Hail (0.75)
Juneau County 1 SW Mauston	11	1850CST			0	0	6K	10K	Hail (1.00)
Spotters, amateur radio operators and law enforcement officials reported wind gusts of 60 to 65 mph as well as hail the size of dimes, quarters and half-dollars. Hardest hit was the area from Platteville to Dickeyville (Grant County), where numerous trees and power lines were blown down, leaving hundreds of people without power for several hours.									
Grant County South Portion	11	1800CST 2050CST			0	0	15K	20K	Flash Flood
5 to 6 inches of rain in two to three hours resulted in flash flooding. Several roads from Dickeyville to Platteville were under as much as a foot of water.									
WISCONSIN, West									
Eau Claire County 7 E Eau Claire	10	2017CST 2019CST			0	0			Hail (1.00)
Eau Claire County Eau Claire	10	2028CST 2029CST			0	0			Hail (0.88)
Dunn County Cedar Falls to Menomonie	10 11	2030CST 0400CST			0	0			Flash Flood
From 2030 to 2115, 2.15 inches of rain fell at Cedar Falls. NWS cooperative observers measured totals of 4.39 inches at Menomonie and 3.48 inches at Cedar Falls. Several intersections and basements in Menomonie were flooded.									
Eau Claire County 2 NNE Eau Claire	10	2050CST 2052CST			0	0			Hail (1.75)
Chippewa County Chippewa Falls to Stanley	10 11	2125CST 0400CST			0	0			Flash Flood
Heavy rain produced 1.71 inches from 2125 to 2150 in Chippewa Falls. NWS cooperative observers reported totals of 6.74 inches at Chippewa Falls and 4.27 inches at Stanley. Flooding was reported at a number of intersections in Chippewa Falls.									
Eau Claire County Eau Claire	10 11	2125CST 0500CST			1	1	3.3M		Flash Flood
Motorist drove around police barricades with vehicle and driver subsequently falling into sinkhole. The Eau Claire Leader-Telegram cited 159 reports of residential damage, and 10 reports of damage to businesses in Eau Claire County. Estimated damages within the city of 1.5 million according to the Public Works director, and another 1.8 million to county property, according to Emergency Management. Rainfall totalled 7.90 inches at the Eau Claire airport, while the NWS cooperative observer 3 miles southwest of Eau Claire measured 5.83 inches rainfall. M34VE									
Eau Claire County 10 NW Cleghorn	10	2130CST 2132CST			0	0			Hail (0.88)
Eau Claire County Eau Claire	10	2130CST 2132CST			0	0			Hail (0.75)
Eau Claire County 7 E Eau Claire	10	2130CST			0	0			Hail (0.75)
Chippewa County Chippewa Falls	11	0145CST			0	0			Hail (0.88)
Dunn County 1 N Menomonie	11	1448CST 1451CST			0	0			Hail (1.75)
Dunn County 2 SE Elk Mound	11	1510CST			0	0			Hail (1.75)
Chippewa County 10 W Lake Hallie	11	1512CST			0	0			Hail (1.75)
Eau Claire County 8 WNW Eau Claire	11	1512CST 1515CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

September 2000

September 2000									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>WISCONSIN, West</u>									
Rusk County 20 NW Ladysmith	11	1514CST 1516CST			0	0			Hail (1.00)
Chippewa County Lake Hallie	11	1539CST 1540CST			0	0			Hail (0.75)
Rusk County 12 S Ladysmith	11	1540CST			0	0			Hail (0.75)
<u>WYOMING, Central and West</u>									
Teton County 35 N Jackson	01 10	0000MST 1800MST			0	0			Wild/Forest Fire
"Teton Complex" of fires burned approximately 16,000 acres during August into September. Ending date and total acreage are estimates.									
Lincoln County 20 N Kemmerer	01 15	0000MST 1800MST			0	0			Wild/Forest Fire
"Fontenelle" fire burned an estimated 15,000 to 20,000 acres during August and September. Ending date estimated.									
Fremont County 2 E Jeffrey City	01	1325MST			0	0			Hail (0.75)
WYZ001>002-008-011>012-014>015-018-022>028	Yellowstone National Park Mt Id - North Absarokas - Owl Creek Mountains - Wind River Mtns East - Lander Foothills - Green Mountains - Natrona - Kemmerer - Rock Springs/Green River - Red Desert - Flaming Gorge - Southeast Sweetwater - Western Big Horn Mountains - Southeast Big Horn Mountains - East Johnson								
	21 23	1800MST 1800MST			0	0			Winter Storm
Early Fall storm brought up to 2 feet of snow to the Big Horn Mtns...12 to 18 inches to the Absarokas and Wind River Mtns...and up to a foot of snow to the Casper area and to parts of Sweetwater County.									
<u>WYOMING, Extreme Southwest</u>									
NONE REPORTED.									
<u>WYOMING, North Central</u>									
WYZ098>099	Northeast Bighorn Mountains - Sheridan Foothills								
	22	0600MST 2100MST			0	0	1K		Heavy Snow
A strong cold front moved through south central Montana into northern Wyoming. In addition, an area of low pressure formed in central Wyoming and moved northeast into southeast Montana. This provided an area of upslope over Sheridan County in northern Wyoming. The combination of these two systems brought the first snow of the season to the area. Trees still had foliage, and as a result, some areas experienced power outages due to broken tree limbs on power lines. Some trees were damaged. Snowfall amounts were around 12 inches. Burgess Junction reported 12 inches of snow. Story reported 10 inches of snowfall and Sheridan reported 4 inches.									
<u>WYOMING, Northeast</u>									
WYZ055-057	South Campbell - Wyoming Black Hills								
	22 23	0100MST 1200MST			0	0			Winter Storm
An early season snowstorm brought heavy snow to northeastern Wyoming. Three to eight inches of snow fell across southern Campbell County, with three to six inches of snowfall in the Bear Lodge Mountains. Some of the snowfall totals at the cooperative observing sites set snowfall records for the month of September.									
<u>WYOMING, Southeast</u>									
WYZ061>067-069	Southwest Carbon - North Carbon - Snowy Range - North Laramie Range - Laramie Valley - Laramie Range - Platte - Cheyenne Foothills								
	22 24	0400MST 1000MST			0	0	100K		Winter Storm
Heavy snow fell over south central and southeast Wyoming over a 2 day period, with 5 to 9 inches common. Elk Mountain, WY, reported 12 to 14 inches of snow while Cheyenne, WY, recorded a record 10.5 inches. Interstate 80 between Laramie and Rock Springs, WY, was closed during much of the storm, stranding up to 1200 travelers, mostly in Rawlins, WY.									

Storm Data and Unusual Weather Phenomena

Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

April 2000

ADDITIONS/CORRECTIONS

MISSISSIPPI, Southeast

Stone County

Wiggins

24	0145CST	2	50	0	0	30K	Tornado (F0)
	0152CST						

It was found from a National Weather Service Storm Survey that two different tornadoes of similar strength, width and distance, tracked east and southeast of Wiggins, MS. (See April 00 Storm Data) The first began in Wiggins near State Highways 29 and 26. The tornado moved northeast crossing State Highway 26 near 4th Street, then moved across Clubhouse Drive and went back into the clouds near McGregor and Big Four Roads. The tornado was a F0, about 50 yards wide and traveled mostly at tree top level, a distance of approximately 2 miles. Almost all of the damage was to trees, except at 4th Street and State Highway 26, where an auto parts store had its windows blown out by debris. High winds then pushed one side of the cinder block store over. An old building near the store, that had been vacant for some time, was blown over.

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

Frederick County Burkittsville	13	1413EST			0	0	2K		Thunderstorm Wind
			Trees were downed.						
Carroll County Mt Airy	13	1415EST			0	1			Lightning
			A 40 year old woman was struck by lightning while standing in the front yard of her home.						
Frederick County Emmitsburg	13	1425EST			0	0	2K		Thunderstorm Wind
			Trees were downed.						
Montgomery County Damascus	13	1530EST			0	0	0.20K		Thunderstorm Wind
			A tree was downed.						
Baltimore City (C) Baltimore	13	1540EST			0	0			Hail (1.00)
			Quarter sized hail fell.						
Harford County Bel Air	13	1622EST 1630EST			0	0			Hail (1.75)
			Dime to golfball sized hail fell.						
Harford County Edgewood to Joppa	13	1630EST			0	0	5K		Thunderstorm Wind
			Several trees were downed.						
Washington County Sandy Hook	13	1650EST			0	0			Hail (0.75)
			Dime sized hail fell.						
Washington County Sandy Hook	13	1650EST			0	0	2K		Thunderstorm Wind
			An estimated wind gust of 70 MPH resulted in tree damage.						
Frederick County Middletown to Burkittsville	13	1710EST 1739EST			0	0	5K		Thunderstorm Wind
			Several trees were downed.						
Montgomery County Boys	13	1730EST			0	0	0.40K		Thunderstorm Wind
			Two trees were downed.						
Montgomery County Olney	13	1730EST			0	0	0.40K		Thunderstorm Wind
			Two trees were downed.						
Carroll County Millers	13	1757EST			0	0			Hail (0.75)
			Dime sized hail fell.						
Carroll County Millers	13	1757EST			0	0			Thunderstorm Wind (G54) ^M
			A 62 MPH wind gust was recorded.						
Carroll County Lineboro	13	1800EST			0	0	20K		Thunderstorm Wind
			Several structures and trees were damaged by winds in excess of 60 MPH.						
Carroll County Northeast Portion	13	1801EST			0	0			Thunderstorm Wind (G56) ^M
			A 64 MPH wind gust was recorded.						
Carroll County Eldersburg	13	1810EST			0	0			Hail (2.00)
			Hen egg sized hail was reported.						
Howard County 5 W Columbia	13	1810EST			0	0	2K		Thunderstorm Wind
			Trees were downed along Route 32.						

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

Howard County									
Fulton	13	1810EST			0	0			Thunderstorm Wind (G50) ^M
		A 57 MPH wind gust was recorded.							
Prince George'S County									
Clinton	13	1815EST			0	0	10K		Thunderstorm Wind
		Extensive tree damage was reported.							
Carroll County									
Manchester	13	1820EST			0	0			Hail (0.88)
		Nickel sized hail fell.							
Carroll County									
Manchester	13	1820EST			0	0	5K		Thunderstorm Wind
		Trees and homes were damaged.							
Prince George'S County									
Suitland	13	1820EST			0	0	5K		Thunderstorm Wind
		Tree damage was reported.							
Prince George'S County									
Oxon Hill	13	1823EST			0	0	1K		Thunderstorm Wind
		Two roads were blocked by downed trees.							
Baltimore County									
Perry Hall	13	1830EST			0	0	5K		Thunderstorm Wind
		A tree was downed onto a home.							
Prince George'S County									
Ft Washington	13	1830EST			0	0	0.50K		Thunderstorm Wind
		Tree damage was reported.							
Prince George'S County									
Temple Hills	13	1830EST			0	0	0.50K		Thunderstorm Wind
		A tree was downed onto Hagen Road.							
Prince George'S County									
Andrews Afb	13	1835EST			0	0			Funnel Cloud
Prince George'S County									
Andrews Afb	13	1835EST			0	0			Thunderstorm Wind (G78) ^M
		A wind gust of at least 90 MPH was recorded.							
Prince George'S County									
Brandywine	13	1840EST 1900EST			0	0	5K		Thunderstorm Wind
		Several trees and power lines were downed and a billboard was twisted.							
Prince George'S County									
Clinton	13	1840EST			0	0			Thunderstorm Wind (G52)
		A wind gust of 60 MPH was estimated.							
Prince George'S County									
1 E Brandywine to 9 E Brandywine	13	1845EST 1903EST	8	150	0	0	100K		Tornado (F1)
		The tornado felled several trees onto houses and cars before it crossed into Calvert County.							

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

Prince George'S County

Upper Marlboro 13 1845EST 0 0 2K Thunderstorm Wind (G52)
Ten trees were downed onto cars and power lines by winds estimated at 60 MPH.

Howard County

2 W Clarksville 13 1850EST 0 0 2K Thunderstorm Wind
Trees were downed onto roads.

Anne Arundel County

South Portion 13 1900EST 0 0 5K Thunderstorm Wind
Several trees were downed onto roads.

Baltimore County

2 S Overlea to 13 1900EST 5 75 0 0 250K Tornado (F1)
2 N Middle River

A tornado downed numerous trees and damaged several structures.

Baltimore City (C)

Countywide 13 1900EST 0 0 15K Thunderstorm Wind
Fences were blown down in Middle River and a tree fell through a roof on Old Harford Road.

Calvert County

Dunkirk 13 1900EST 0 0 5K Thunderstorm Wind
Trees were downed and roof shingles and trim were damaged on homes.

Harford County

Southeast Portion 13 1900EST 0 0 10K Thunderstorm Wind
1930EST
Trees were downed onto a home and a car near the Bush River.

Calvert County

4 W Chaney to 13 1903EST 4 150 0 1 20K Tornado (F1)
Chaney 1910EST

The tornado that came from Prince George's County downed trees onto cars and houses.

Prince George'S County

Accokeek 13 1907EST 0 0 Hail (0.75)
Dime sized hail fell.

Prince George'S County

Accokeek 13 1907EST 0 0 2K Thunderstorm Wind
Trees were downed.

Prince George'S County

Clinton 13 1908EST 0 0 Thunderstorm Wind (G52)
Winds estimated at 60 MPH pushed a car into the median on Highway 301.

Harford County

Abingdon 13 1920EST 0 0 Funnel Cloud

Baltimore County

Cockeysville 13 1930EST 0 0 Hail (1.00)

Quarter sized hail fell.

Temperatures in the mid 80s to lower 90s in combination with humid conditions resulted in several rounds of thunderstorms across Maryland west of the Chesapeake Bay from midday through late evening on the 13th. Several storms produced winds in excess of 55 MPH, large hail, frequent lightning, and very heavy downpours. Two tornadoes were also reported. In Washington County, dime sized hail fell at Camp Manidokan along Harpers Ferry Road north of Sandy Hook. Winds estimated at 70 MPH were responsible for downing trees at the camp. Tree damage was also reported near Smithsburg and Gapland. Trees and power lines were downed in Hagerstown and one fallen tree damaged a car. A backed up storm drain also caused the underpass of Memorial Boulevard to flood, stranding one motorist. In Frederick County, trees were downed in Burkettessville and Emmitsburg. A tree was downed onto a home and truck in Middletown where a wind gust of 56 MPH was recorded and pea sized hail fell. A wind gust of 43 MPH was recorded in Knoxville.

In Carroll County, a 40 year old woman was struck by lightning while standing in her front yard in Mt. Airy around 3:15 PM EDT.

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

She suffered internal injuries and burns to her hands and feet. Dime sized hail fell in Millers where a wind gust of 62 MPH was recorded. Winds in excess of 60 MPH damaged or destroyed 3 barns and a grain bin and pushed a tree onto a home in Lineboro. A wind gust of 64 MPH was recorded where walnut sized hail fell in the northeast portion of the county. Trees, power lines, and homes were damaged by high wind in Manchester where nickel sized hail fell. Hen egg sized hail fell in Eldersburg. Spiral patterns nearly 80 feet in diameter were reported in a wheat field near Sykesville after the storms.

In Baltimore County, quarter sized hail fell in the city of Baltimore and pea sized hail fell in Riesertown. Trees were downed onto a home and onto roads in Perry Hall. A tree fell through the roof of a building on Old Harford Road. Fences were blown down in Middle River. Quarter sized hail fell in Cockeysville. An F1 tornado crossed 5 miles of southeast Baltimore County between 8:00 PM and 8:10 PM EDT. The tornado was 75 yards wide and began just off Kenwood Avenue near the Interstate 95 and 695 interchange east of the city of Baltimore. It moved east uprooting and snapping trees and branches and causing damage to the trim and exterior of over a dozen homes. A large boat and trailer was rotated around. The tornado crossed Interstate 695 and damaged the roof of four townhouses off Fontana Lane. It crossed Rossville Boulevard and Philadelphia Road and damaged several buildings in an industrial park along Yellow Brick Road. The tornado finally dissipated near Pulaski Highway. Nearly 55,000 customers in the area lost power.

In Harford County, dime to golfball sized hail fell in Bel Air. Pea sized hail fell from Carrotsville to Forest Hill. Several trees and power lines were downed. The most extensive area of tree damage was in Edgewood, Joppatowne, Pleasant Hill, and Bel Air. A tree and car in Edgewood were damaged by fallen trees. Automobiles were also damaged by felled trees in Aberdeen and Norrisville. Near Perryman in the southeast portion of the county, trees were downed onto a home and car along the Bush River. A funnel cloud was spotted in Abbingdon. At the peak of the storm, 30,000 county residents lost power. Three homes in Bel Air, two homes in Darlington, and one home in Jarrettsville were struck by lightning. In Howard County, a 57 MPH wind gust was recorded in Fulton along with pea sized hail. Trees were downed along Route 32 near Columbia and near Clarksville. In Anne Arundel County, several trees were downed onto roads in the southern portion of the county. Nearly 7000 county customers lost power as a direct result of the storm. In Montgomery County, trees were downed in Damascus, Boyds, and Olney. In Charles County, pea to marble sized hail fell in St. Charles.

In Prince George's County, downed trees and power lines were reported in Clinton, Suitland, Accokeek, Oxon Hill, Brandywine, Upper Marlboro, Ft. Washington, and Temple Hills. Some roads were blocked by fallen trees. Dime size hail fell in Accokeek. Winds of 60 MPH were estimated in Clinton and Upper Marlboro. Winds of at least 60 MPH pushed a car on Route 301 near Clinton into a median and tipped it on its side. A wind gust of at least 90 MPH was recorded at Andrews Air Force Base. A funnel cloud was also spotted nearby. An F1 tornado touched down about 1 mile east of Brandywine at 7:45 PM EDT. The tornado traveled on the ground for 8 miles and was 150 yards wide. It moved northeast to near Naylor crossing Keys Road, Molly Berry Road, Croom Road, Nottingham Road, and into a park along the Patuxent River. The tornado felled several trees, some onto cars and homes as it moved across the county, knocking out power to 51,000 customers. The F1 tornado crossed into Calvert County 4 miles west of Chaney. It moved east, crossing Lyons Creek Road, Route 4, Chaney Road, and Chesapeake Beach Road before dissipating near Chaney around 8:10 PM EDT. The tornado downed trees onto cars and houses in the area. One motorist was injured on Route 4 when the tornado downed a tree onto a car. In addition, winds in excess of 55 MPH downed a tree and damaged the exterior of homes in Dunkirk.

MICHIGAN, North

Manistee County

4 N Manistee	12	1323EST			0	0	Thunderstorm Wind (G75)
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Wexford County

Cadillac	12	1405EST			0	0	Hail (0.75)
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Wexford County

Cadillac	12	1445EST 1545EST			0	0	Flash Flood
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Up to six inches of water covered some city streets.

Ogemaw County

West Branch Arpt	12	1512EST			0	0	Hail (0.88)
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Manistee County

Manistee	12	1515EST 1600EST			0	0	Flash Flood
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Up to six inches of water covered city streets.

Gladwin County

20 NE Gladwin to 21 NE Gladwin	12	1536EST 1538EST	1.5	20	0	0	Tornado (F0)
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A tornado briefly touched down in far northeast Gladwin County and crossed into Arenac County lifting near interstate 75.

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ADDITIONS/CORRECTIONS

MICHIGAN, North

Arenac County 2 W Alger	12	1538EST 1540EST	0.5	20	0	0			Tornado (F0)
A tornado briefly touched down in far northeast Gladwin County and crossed into Arenac County lifting near interstate 75.									
Iosco County Whittemore	12	1545EST			0	0			Hail (1.75)
Ogemaw County Prescott	12	1545EST			0	0			Hail (1.75)
Ogemaw County Prescott	12	1548EST			0	0			Hail (1.75)
Iosco County Whittemore	12	1550EST			0	0			Hail (1.00)
Ogemaw County Prescott	12	1550EST			0	0			Hail (1.00)
Iosco County 5 S Whittemore	12	1603EST			0	0			Hail (0.88)
Iosco County East Tawas	12	1608EST			0	0			Hail (0.88)
Missaukee County 4 N Lake City	12	1620EST			0	0			Hail (0.75)
Roscommon County 8 N Houghton Lake	12	1630EST			0	0			Thunderstorm Wind (G50)
Several trees were blown down.									
Leelanau County 2 S Leland	12	1702EST			0	0			Hail (1.00)
Leelanau County Suttons Bay	12	1709EST			0	0			Hail (1.00)
Leelanau County Maple City	12	1715EST			0	0			Hail (1.00)
Charlevoix County Ironton	12	1727EST			0	0			Hail (1.00)
Alcona County Countywide	12	1810EST			0	0			Thunderstorm Wind (G50)
Trees and power lines were blown down over portions of the entire county.									
Alcona County Harrisville	12	1810EST			0	0			Hail (1.00)
Alcona County 2 N Harrisville	12	1812EST			0	0			Hail (1.00)
Alcona County Harrisville	12	1813EST			0	0			Hail (1.00)

Thunderstorms developed across Northern Lower Michigan in unseasonably warm and humid air ahead of a strong cold front that was moving across the Great Lakes Region. Thunderstorms developed during the late afternoon and lasted through the evening. Most of these storms produced very heavy rain and hail. The heavy rainfall also produced some street flooding in the cities of Manistee and Cadillac. A few of these storms produced severe wind gusts. An isolated tornado was reported across the Gladwin-Arenac County line; however, the hail and flooding had the greatest impact.

MINNESOTA, Central and South Central

Lac Qui Parle County Boyd	07	1855CST 1856CST			0	0			Hail (0.75)
Yellow Medicine County 8 W Clarkfield	07	1855CST 1856CST			0	0			Hail (1.75)

Home windows broken, water left standing in fields.

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Yellow Medicine County

5 W Clarkfield 07 1858CST 1859CST 0 0 Hail (0.75)

Lac Qui Parle County

3 SE Boyd 07 1905CST 1906CST 0 0 Hail (1.00)

Yellow Medicine County

2 NE Clarkfield 07 1905CST 1915CST 0 0 Hail (1.50)

Wind driven hail produced major damage to numerous houses and other property.

Yellow Medicine County

1 E Clarkfield to 7 NE Clarkfield 07 1905CST 1915CST 0 0 Thunderstorm Wind (G78)

Estimated winds. Damage survey indicated damage to numerous barns, sheds, power lines, and trees. Downburst swath was approximately 5 miles wide and 7 miles long.

Chippewa County

2 NW Granite Falls 07 1915CST 0 0 Hail (1.75)

Wind driven hail caused significant damage to houses and other property.

Chippewa County

2 NW Granite Falls 07 1915CST 1916CST 0 0 Thunderstorm Wind (G70)

Estimated winds. Barns down and 18 inch diameter tree felled.

Yellow Medicine County

2 NW Granite Falls 07 1915CST 1916CST 0 0 Thunderstorm Wind (G75)

Estimated winds. Numerous trees, a few sheds, and two barns toppled.

Renville County

Renville 07 1945CST 0 0 Thunderstorm Wind (G55)

Estimated winds. Numerous power lines down.

Renville County

3 NE Renville 07 1947CST 0 0 Thunderstorm Wind (G60)

Estimated winds. Barn toppled.

Renville County

6 NNE Renville 07 1950CST 0 0 Hail (2.00)

Renville County

6 NNE Renville 07 1950CST 0 0 Thunderstorm Wind (G70)

Estimated winds. Two barns down. Numerous trees toppled. Damage survey indicated a thunderstorm downburst occurred. The downburst swath was about 3 miles wide and 3 miles long. The downburst extended into Kandiyohi county.

Kandiyohi County

1 W Blomkest to 3 SE Blomkest 07 2010CST 2011CST 0 0 Hail (1.00)

Kandiyohi County

3 SE Prinsburg 07 2010CST 2020CST 0 0 Hail (2.75)

Major damage incurred to houses and other property.

Kandiyohi County

3 SE Prinsburg to 3 E Prinsburg 07 2010CST 0 0 Thunderstorm Wind (G75)

Scattered trees and sheds down, a few barns down. The damage originated from a downburst which was 5 miles long and 3 miles wide. It covered a portion of northern Renville and a portion of southern Kandiyohi county. The swath of of wind damage in Kandiyohi county was 3 miles wide and 2 miles long.

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Kandiyohi County 2 S Roseland to 2 SE Roseland	07	2010CST 2014CST	2	30	0	0			Tornado (F1)
			Eight horses killed when barn hit by tornado.						
Kandiyohi County Blomkest	07	2015CST 2016CST			0	0			Hail (1.25)
Kandiyohi County Willmar Arpt	07	2015CST 2016CST			0	0			Thunderstorm Wind (G51) ^M
Kandiyohi County Lake Lillian	07	2023CST 2024CST			0	0			Hail (1.00)
Kandiyohi County 1 E Lake Lillian	07	2025CST 2026CST			0	0			Thunderstorm Wind (G55)
			Two 70 foot pine trees toppled.						
Kandiyohi County 3 NE Lake Lillian	07	2035CST 2036CST			0	0			Hail (1.75)
Kandiyohi County 3 N Lake Lillian to 3 NE Lake Lillian	07	2035CST 2038CST	1	30	0	0			Tornado (F1)
			Barn down, house pushed slightly off its foundation, numerous trees down, numerous home windows damaged.						
Kandiyohi County 3 SW Atwater to 2.5 SW Atwater	07	2045CST 2047CST	0.5	15	0	0			Tornado (F0)
			Power lines down.						
Meeker County 5 S Grove City	07	2050CST 2053CST			0	0			Thunderstorm Wind (G75)
			Downburst winds created swath of destruction to include several barns, sheds, and trees blown down. Swath of winds was 3 miles long and two miles wide.						
Meeker County 4 N Cosmos to 4.2 NE Cosmos	07	2055CST 2057CST	0.2	15	0	0			Tornado (F0)
			Barn toppled.						
Meeker County Litchfield	07	2110CST 2111CST			0	0			Hail (0.88)
Mille Lacs County Princeton Muni Arpt	07	2110CST 2111CST			0	0			Hail (1.75)
			Reported by FAA flight service personnel.						
Sherburne County 4 NW Clear Lake	07	2205CST 2206CST			0	0			Hail (0.88)
Stearns County 4 SW St Cloud	07	2210CST			0	0			Hail (0.88)
Carver County 2 NW Mayer	08	0030CST			0	0			Thunderstorm Wind (G52)
			Few trees down.						
Freeborn County Myrtle	17	0935CST 0936CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Freeborn County									
5 N Myrtle	17	0940CST 0941CST			0	0			Hail (1.00)
Brown County									
Springfield	17	1100CST			0	0			Hail (0.75)
Redwood County									
Walnut Grove	17	1105CST 1106CST			0	0			Hail (0.88)
Brown County									
2 E Springfield	17	1114CST 1115CST			0	0			Hail (1.00)
Brown County									
Sleepy Eye	17	1127CST 1128CST			0	0			Hail (1.75)
Redwood County									
3 N Sanborn	17	1140CST 1150CST			0	0			Hail (0.75)
Brown County									
Comfrey	17	1145CST 1146CST			0	0			Hail (0.75)
Brown County									
Springfield	17	1150CST 1151CST			0	0			Hail (0.88)
Brown County									
6 S New Ulm	17	1155CST 1210CST			0	0	500K		Hail (1.75)
More than 100 vehicles at a dealership sustained damage.									
Blue Earth County									
2 W Cambria	17	1200CST 1201CST			0	0			Hail (1.75)
Nicollet County									
Courtland to Nicollet	17	1200CST 1220CST			0	0	500K		Hail (1.75)
According to the Nicollet County Extension Office, twenty minutes of hail caused damage to 18,000 acres of crops, and 6,000 acres needed to be replanted.									
Nicollet County									
Nicollet	17	1215CST 1216CST			0	0			Hail (1.75)
Watonwan County									
1 NE La Salle	17	1220CST 1221CST			0	0			Hail (1.00)
Nicollet County									
2 N Mankato	17	1225CST 1226CST			0	0			Hail (1.00)
Blue Earth County									
5 WSW Lake Crystal	17	1231CST 1232CST			0	0			Hail (1.75)
Blue Earth County									
Garden City	17	1240CST 1241CST			0	0			Hail (0.75)
Le Sueur County									
Kasota	17	1240CST 1250CST			0	0			Hail (1.00)
The Owatonna People's Press reported that hail piled up like snowdrifts.									
Blue Earth County									
Garden City	17	1255CST 1256CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
					Killed	Injured	Property		

ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Le Sueur County

6 S Le Center 17 1300CST
1301CST 0 0 Hail (0.75)

Martin County

1 SW Truman 17 1910CST 0 0 Hail (0.75)

Blue Earth County

1 W Mapleton 17 2000CST 0 0 Hail (1.00)

VIRGINIA, North

Albemarle County

4 NW Boonesville to 19 1334EST 2 50 0 0 0.50K Tornado (F1)
3 NW Boonesville 1340EST

The tornado began just north of Loft Mountain, downed trees and moved into Greene County.

Rockingham County

9 E Grottoes 19 1335EST 0 0 2K Thunderstorm Wind

Trees were downed on the Rockingham County side of Skyline Drive east of Grottoes.

Greene County

4 W Dyke to 19 1340EST 9 100 0 0 2K Tornado (F1)
2 W Quinque 1355EST

The tornado crossed into Greene County west of Dyke and dissipated just east of Amicus, downing several trees and power lines in its path.

Greene County

South Portion 19 1340EST 0 0 5K Thunderstorm Wind
1355EST

Trees were downed mainly south of the tornado's path.

Albemarle County

1 E Farmington 19 1359EST 0 0 2K Thunderstorm Wind

Trees were downed onto Old Ivy Road.

Orange County

Barboursville 19 1410EST 0 0 Hail (1.50)

Silver dollar sized hail fell.

Orange County

Southwest Portion 19 1420EST 0 0 Hail (0.75)

Dime sized hail fell on Hardwick Mountain.

Nelson County

Gladstone 19 1425EST 0 0 2K Thunderstorm Wind

Trees were downed.

Severe thunderstorms moved across Central Virginia during the afternoon of the 19th. These storms produced winds in excess of 55 MPH, large hail, and frequent lightning. In Orange County, silver dollar sized hail fell in Barboursville and dime sized hail fell on Hardwick Mountain. In Nelson County, trees were downed in the Gladstone area. Just west of Charlottesville, a tree was downed onto Old Ivy Road. The strongest storm produced an F1 tornado that uprooted and snapped several trees along an 11 mile path from extreme northern Albemarle County to southern Greene County. The tornado began just north of Loft Mountain, about 200 yards east of Skyline Drive. It moved eastward across County Line Mountain into Greene County, and crossed Route 601 at Muddy Run. The tornado damage path widened at this point from 30 yards to between 50 and 100 yards. The tornado continued east and traveled near the towns of Shady Grove and Dyke before finally dissipating a few miles east of Amicus. This storm also produced downburst winds to the south of the tornado's path that uprooted trees and downed power lines in southern Greene County. Trees were also downed just west of where the tornado formed just west of Skyline Drive in Rockingham County.

Storm Data and Unusual Weather Phenomena

June 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

Frederick County

Countywide	21	2000EST 2200EST			0	0			Heavy Rain
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Montgomery County

Gaithersburg	21	2100EST Trees were downed.			0	0	1K		Thunderstorm Wind
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Montgomery County

1 N Glenmont to 1 N Colesville	21	2110EST	1	30	0	0	250K		Tornado (F1)
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Numerous trees were downed or snapped, several cars were damaged by trees and debris. Several apartment roofs, a wall, and a fence were damaged. Trim and siding on homes were also damaged.

Montgomery County

Wheaton	21	2110EST Trees were downed south of the tornado's path.			0	0	5K		Thunderstorm Wind
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Howard County

3 S Columbia	21	2120EST High winds blew in a window and snapped trees.			0	0	5K		Thunderstorm Wind
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Montgomery County

Colesville	21	2120EST Golfball to lemon sized hail fell just prior to the tornado.			0	0			Hail (2.00)
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Anne Arundel County

North Portion	21	2125EST 2150EST Wind gusts between 60 and 75 MPH downed several trees and power lines.			0	0	25K		Thunderstorm Wind
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Prince George's

County

1 E Laurel	21	2125EST Wind gusts between 60 and 75 MPH downed trees just south of the tornado's path.			0	0	10K		Thunderstorm Wind
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Prince George's

County

.5 E Laurel to 1.5 E Laurel	21	2128EST 2132EST	1	150	0	0	150K		Tornado (F1)
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Numerous trees were downed and some exterior damaged was reported on buildings. The tornado cut a path through the Patuxent Greens Golf Course and damaged the clubhouse and maintenance buildings. About 80 large trees were lost on the property. Thunderstorms which contained winds in excess of 55 MPH, heavy rainfall, and large hail developed ahead of a cold front during the evening of the 21st. The line of storms that moved across Montgomery and Prince George's Counties produced two tornadoes. The first tornado touched down in the Aspen Hill area of Montgomery County along Colesville Manor Drive. It move east across Northwest Branch Park and onto Scott Drive, Mills Avenue, Notley Street, and Paula Lynn Drive, then dissipated 1 mile north of Colesville. The F1 tornado was on the ground for 1 mile and was 30 yards wide. It downed numerous trees, including one which fell onto a house and another onto a shed. The second tornado, nearly 150 yards wide, touched down just east of Laurel near Route 197 and the Patuxent Greens Country Club. It damaged a garage door, tore an awning, and lifted shingles on golf course property, in addition to knocking down over 80 large trees. The F1 tornado continued east for one mile downing several other trees before dissipating near the Patuxent River. In addition to the tornado damage, straight line winds in excess of 55 MPH also damaged trees, power lines, and structures in Montgomery and Prince George's Counties. An apartment complex in Silver Spring suffered roof damage, shattered windows, ripped gutters, and damaged cinder block walls. Downed fences and several cars damaged by fallen trees were found nearby. Tree damage was also reported in Gaithersburg, the Rock Creek Valley neighborhood, Wheaton, and Laurel. In Howard County, high winds blew in a window and snapped trees south of Columbia. Winds estimated between 60 and 75 MPH downed numerous trees and power lines across northern Anne Arundel County, including the communities of Odenton, Glen Burnie, Crownsville, and Pasadena. In Frederick County, 1.75 inches of rain fell in Wolfsville and 1.57 inches was recorded in Frederick.

MINNESOTA, Central and South Central

Goodhue County

3 E Pine Is	10	1450CST			0	0			Hail (0.75)
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Martin County

Dunnell	24	0015CST 0020CST			0	0			Hail (1.50)
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Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MARYLAND, Central

Howard County

3 SE Savage to 10 1630EST 0.6 100 0 0 50K Tornado (F1)
4 SE Savage 1632EST

The tornado downed several trees and power lines and blew over two trailers and 3 semi-tractor trailers before it moved into Anne Arundel County.

Anne Arundel County

1 NE Maryland City to 10 1632EST 0.7 100 0 0 5K Tornado (F1)
Maryland City 1635EST

The tornado which came from Howard County downed several trees onto roads and buildings and onto commuter railroad tracks before it dissipated near Maryland City.

Anne Arundel County

Countywide 10 1645EST 0 0 20K Thunderstorm Wind
1720EST

Several trees and power lines were downed.

Charles County

Bryans Road 10 1700EST 0 0 50K Lightning

A lightning strike caused extensive damage to a home.

Charles County

Countywide 10 1702EST 0 0 5K Thunderstorm Wind
1715EST

Trees were downed onto roads and a home.

St. Mary'S County

Countywide 10 1720EST 0 0 10K Thunderstorm Wind
1800EST

Trees were downed.

Calvert County

Lusby 10 1745EST 0 0 1K Thunderstorm Wind

A tree was downed onto a power line.

Thunderstorms that produced winds in excess of 55 MPH, large hail, heavy downpours, and frequent lightning moved across central Maryland during the evening of the 10th. The strongest storm produced a tornado that touched down extreme southern Howard County then moved east into Anne Arundel County. The F1 tornado was 100 yards wide and stayed on the ground for 2 miles. It formed just southeast of High Ridge then moved east and dissipated near Maryland City. It crossed Route 1 and passed through a populated area where it caused considerable damage. Near High Ridge, several trees and power lines were downed. The tornado blew out a plate glass window and damaged a revolving door. It also blew over a line of 6 power poles, two trailers, three 8000 lb. containers, and three semi-tractor trailers. Near Maryland City, several trees were downed onto roads and buildings and a trailer was damaged. Straight line winds in excess of 55 MPH caused damage south of the tornado's path. A wind gust of 43 MPH was recorded at Laurel in Howard County. In and around Anne Arundel County, trees were downed in Severna Park, Crofton, Crownsville, Hillsmere, Odenton, Edgewater, Savage, and Laurel. In Calvert County, a tree was downed onto a power line in Lusby. In St. Mary's County, trees were downed countywide. In Charles County, trees were downed in Bryan's Road, Waldorf, and La Plata. Lightning also started a fire at a home in Bryan's Road that extensively damaged the structure. A tree was felled onto a home in Waldorf. In Prince George's County, pea sized hail was reported in Greenbelt.

Allegany County

West Portion 31 1500EST 0 0 Flash Flood
1700EST

Roads and streams were flooded.

Allegany County

Lonaconing 31 1508EST 0 0 2K Flash Flood

Trees were downed along Route 36 near George's Creek.

St. Mary'S County

2 N Hollywood 31 1547EST 0.5 30 0 0 1K Tornado (F0)

A dugout at Higgs Memorial Ball Park was destroyed.

Isolated thunderstorms moved across Allegany and St. Mary's Counties during the afternoon of the 31st. Across the western portion of Allegany County, several roads were flooded and streams overflowed their banks after heavy downpours. Near Lonaconing, trees were downed along Route 36 at the intersection of George's Creek. A total of 1.85 inches of rain was recorded in Cumberland and over 3 inches fell in Westernport. In St. Mary's county, a weak tornado only 30 yards wide touched down momentarily just north of Hollywood at Higgs Memorial Ball Park. The F0 twister was only on the ground for one tenth of a mile but it damaged one structure, a dugout at the ballfield.

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Mille Lacs County									
Princeton Muni Arpt	07	0858CST			0	0			Thunderstorm Wind (G54) ^M
			Several large trees down in Princeton. Top of silo blown off.						
Sherburne County									
Zimmerman	07	0906CST			0	0			Thunderstorm Wind (G55)
			Large trees and powerlines blown down.						
Sherburne County									
2 N Zimmerman	07	0908CST			0	0			Thunderstorm Wind (G55)
			Large trees felled.						
Anoka County									
St Francis	07	0925CST			0	0			Thunderstorm Wind (G55)
			Power lines down.						
Anoka County									
2 NW Ramsey	07	0930CST			0	0			Thunderstorm Wind (G50)
			Several trees down.						
Anoka County									
Anoka	07	0935CST 0937CST			0	0			Hail (1.50)
Anoka County									
Blaine to Circle Pines	07	0945CST 0947CST			0	0			Thunderstorm Wind (G65)
			Damage survey confirmed downburst initially hit in extreme southeast Blaine, just west of Centennial High School. Damage was produced for about 1/2 mile as it travelled southeast. Hundreds of trees downed, including some on houses and vehicles. Survey revealed that the downburst was embedded within a southeast moving mesocyclone. The downed trees in Blaine were mostly oriented from southeast to northwest, while those in Circle Pines were mostly from northwest to southeast. It is possible (though uncertain) that this mesocyclone was the same one that moved from Little Canada to St. Paul, producing wind damage.						
Anoka County									
Lino Lakes	07	0945CST			0	0			Thunderstorm Wind (G60)
			Hundreds of trees down from the northeast side of Reshanau Lake to Amelia Lake, near Interstate 35E and County Road J. A truck was overturned. This was the apparent start of a mesocyclone that produced occasional downburst damage, from White Bear Lake, across Lake Elmo (where it produced a brief tornado - see entry), and into Wisconsin (see Pierce County). Interestingly, the vast majority of the damage was due to winds blowing from southeast to northwest, even though the mesocyclone was travelling to the southeast.						
Ramsey County									
New Brighton	07	0957CST			0	0			Thunderstorm Wind (G65)
			Roof damage to lumber building near I-694 and 35W.						
Ramsey County									
White Bear Lake to White Bear Beach	07	1000CST 1002CST			0	0			Hail (0.75)
Ramsey County									
Little Canada to St Paul	07	1005CST 1020CST			0	0			Thunderstorm Wind (G55)
			Damage survey showed that an intense downburst-producing mesocyclone moved southeast from Little Canada (near Interstates 694 and 35E) to the east side of St. Paul (the Beaver Lake area). Thousands of trees were down as well as numerous power lines. Many trees came down on houses and vehicles. An unconfirmed funnel cloud was reported just south of Lake Phalen, but there was no indication of any tornado touchdown according to the damage survey. Interestingly, the vast majority of the downed trees were oriented from southeast to northwest, even though the mesocyclone was moving to the southeast. It is possible (but uncertain) that this mesocyclone was the same one that hit Blaine and Circle Pines of Anoka County (see entry).						
Ramsey County									
White Bear Lake	07	1005CST			0	0			Thunderstorm Wind (G65)
			Numerous large trees down. Major roof damage to residence due to falling tree. Windows broken in several homes. Large signs down at Belair and County Road E.						
Ramsey County									
Maplewood	07	1007CST 1010CST			0	0			Hail (1.75)

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Ramsey County North St Paul	07	1008CST 1018CST			0	0			Hail (2.00)
Ramsey County Maplewood	07	1010CST Several large trees down.			0	0			Thunderstorm Wind (G60) ^M
Ramsey County Vadnais Hgts	07	1010CST 1015CST Approximately 765 new cars damaged at several dealerships.			0	0			Hail (1.50)
Ramsey County Vadnais Hgts	07	1010CST Several buildings blown down.			0	0			Thunderstorm Wind (G70)
Washington County Oakdale	07	1010CST 1017CST			0	0			Hail (1.75)
Washington County Oakdale to 2 SW Afton	07	1010CST 1025CST Numerous trees down, some on houses and vehicles. Three mobile homes in Whispering Oaks Park in Oakdale were severely damaged by falling trees, while two other mobile homes sustained moderate damage.			0	0	500K		Thunderstorm Wind (G55)
Ramsey County North St Paul	07	1015CST Numerous large trees down.			0	0			Thunderstorm Wind (G55)
Washington County Lake Elmo	07	1015CST 1025CST Damaged crops include corn, soybean, and various garden vegetables along a two mile path through Lake Elmo, according to the Courier News.			0	0	2M		Hail (1.75)
Washington County Lake Elmo	07	1020CST Tornado occurred near County Rd. 17 and County Rd. 10. Numerous trees down and a few mobile homes were damaged before tornado moved into an open field. This tornado was produced by a mesocyclone that began producing downburst damage in Lino Lakes and continued moving southeast into Wisconsin (Pierce County).	0.1	30	0	0			Tornado (F1)
Goodhue County 5 NW Red Wing to 6 SE Red Wing	07	1115CST 1130CST Corn stripped in Wacouta, Welch and Florence townships as storm tracked to the southeast.			0	0			Hail (0.75)
Goodhue County Red Wing	07	1120CST Numerous trees down.			0	0			Thunderstorm Wind (G55)
Douglas County 1 W Kensington	07	1840CST 1842CST			0	0			Hail (0.75)
Douglas County Kensington	07	1845CST Trees felled.			0	0			Thunderstorm Wind (G50)
Douglas County 4 E Kensington	07	1850CST 1852CST			0	0			Hail (1.25)
Pope County Farwell	07	1852CST 1853CST			0	0			Hail (0.75)
Pope County .2 NW Lowry to .5 NE Lowry	07	1858CST 1910CST Touchdown occurred over open field. A few large trees reported down across area.	0.3	20	0	0			Tornado (F0)

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Pope County

2 SW Long Beach to 2 S Long Beach 07 1922CST 1 20 0 0 Tornado (F0)
1930CST

Touchdown occurred briefly on the northwest shore of Lake Minnewaska, then moved onto the lake and dissipated. No damage reported.

Pope County

2 SW Sedan 07 1934CST 0 0 Funnel Cloud
1940CST

Though viewed by law enforcement, spotters and storm chasers, there was no touchdown.

Pope County

8 ESE Terrace to 8.1 ESE Terrace 07 1955CST 0.1 20 0 0 Tornado (F0)
2000CST

Touchdown developed over open field, no damage reported.

Dakota County

Burnsville 07 2240CST 0 0 Hail (1.00)
2243CST

Dakota County

Apple Vly 07 2245CST 0 0 Hail (0.75)
2255CST

Hail covered the ground.

Dakota County

Eagan 07 2245CST 0 0 Hail (0.75)
2246CST

Dakota County

Eagan 07 2250CST 0 0 Thunderstorm Wind (G50)

Four inch diameter tree limbs severed.

Hennepin County

Golden Vly 07 2258CST 0 0 Hail (1.00)
2300CST

Dakota County

Eagan 07 2300CST 1 0 20M Flash Flood
08 0400CST

Widespread flooding in Eagan and neighboring portions of Rosemount, Apple Valley, and Burnsville. Between 6 and 12 inches of rain fell during this 3 hour event. One man died of drowning after being swept into a culvert. Over 200 homes in Eagan incurred water damage. Numerous homes in Rosemount and Burnsville reported basement flooding. Minor to moderate damage to forty homes in Burnsville. Numerous roads in Eagan, Burnsville and Rosemount flooded; numerous vehicles stalled. Portions of Pilot Knob Rd. destroyed along with retaining wall. M20IW

Hennepin County

Minneapolis 07 2300CST 0 0 Hail (0.75)
2302CST

Report occurred at 44th and France.

Hennepin County

Minneapolis 07 2305CST 0 0 Hail (1.00)
2307CST

Hail occurred in southwest Minneapolis. Northern States Power reported a total of 135,000 residents across the Twin Cities metro area were without power for several hours.

Hennepin County

Minneapolis 07 2310CST 0 0 Thunderstorm Wind (G55)

Large tree blown down near lake Harriet.

Dakota County

Burnsville 07 2330CST 0 0 Hail (0.88)
2332CST

Kanabec County

10 N Mora 08 1929CST 0 0 Thunderstorm Wind (G50)

Trees downed on power lines near Knife lake.

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Todd County

2 NW Staples to Staples 08 2043CST 2 20 0 1 Tornado (F2)

Roofs blown off homes and one business. At least one dozen homes damaged. Numerous large trees down. One minor injury in Staples due to flying glass. Tornado crossed over from Wadena county.

Morrison County

5 N Pierz 08 2155CST 0 0 Thunderstorm Wind (G50)

Trees felled.

Morrison County

Flensburg 08 2210CST 0 0 Hail (0.75)

2212CST

Morrison County

Little Falls 08 2210CST 0 0 Thunderstorm Wind (G50)

Trees blown down.

Morrison County

Little Falls 08 2245CST 0 0 Urban/Sml Stream Fld

09 0245CST

Two to three inches rain in less than two hours caused minor street flooding, with two vehicles stranded.

Steele County

Blooming Prairie 08 2300CST 0 0 Urban/Sml Stream Fld

09 0300CST

Estimated 3-4 inches of rain fell during period. Minor street flooding, several homes incurred minor basement flooding.

Isanti County

Braham 08 2305CST 0 0 Thunderstorm Wind (G50)

Tree fell on home.

Brown County

Sleepy Eye 09 2200CST 0 0 Thunderstorm Wind (G55)

Several large trees toppled.

Martin County

Fairmont 09 2208CST 0 0 Thunderstorm Wind (G60) ^M

Measured at radio station on western outskirts of Fairmont.

Martin County

4 E Fairmont to 6 E Fairmont 09 2215CST 0 0 Thunderstorm Wind (G55)

Rose Lake Golf club east of Fairmont reported 25 trees down, and 53 large trees were downed 4 miles east of Fairmont.

Faribault County

Blue Earth 09 2255CST 0 0 Thunderstorm Wind (G55)

Trees and power lines down.

Morrison County

7 E Buckman 25 1400CST 0 0 Hail (0.75)

Benton County

2 SW Rum River 25 1440CST 0 0 Hail (0.75)

Kanabec County

Ogilvie 25 1445CST 0 0 Hail (0.75)

1502CST

Mille Lacs County

5 NW Milaca 25 1450CST 0.2 30 0 0 Tornado (F0)

1452CST

Touched down in open field. No damage.

Kanabec County

Mora 25 1505CST 0 0 Hail (0.75)

1507CST

Kanabec County

3 E Ogilvie 25 1510CST 0 0 Thunderstorm Wind (G55)

Hay bales blown across road.

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Mille Lacs County									
Milaca	25	1515CST			0	0			Hail (1.75)
Douglas County									
Evansville	25	1518CST 1523CST			0	0			Hail (1.75)
Mille Lacs County									
1 SW Bock	25	1535CST			0	0			Hail (0.75)
Kanabec County									
2 SE Ogilvie	25	1545CST			0	0			Hail (0.75)
Douglas County									
4 S Osakis	25	1555CST 1557CST			0	0			Hail (0.88)
Pope County									
Glenwood	25	1558CST 1559CST			0	0			Thunderstorm Wind (G60)
		Trees and power lines down.							
Chippewa County									
Milan	25	1615CST 1620CST			0	0			Hail (1.50)
Swift County									
Danvers	25	1623CST 1627CST			0	0			Hail (1.00)
Isanti County									
Braham	25	1630CST 1639CST			0	0			Hail (1.75)
Stearns County									
5 W Meire Grove	25	1630CST			0	0			Hail (1.00)
Pope County									
1 E Gilchrist	25	1635CST			0	0			Hail (0.75)
Pope County									
1 E Gilchrist	25	1635CST			0	0			Thunderstorm Wind (G50)
		Few trees down.							
Lac Qui Parle County									
6 N Boyd	25	1638CST 1642CST	0.1	10	0	0			Tornado (F0)
		Minor crop damage.							
Stearns County									
2 S Sauk Centre	25	1638CST 1639CST			0	0			Thunderstorm Wind (G60)
		Power lines down.							
Stearns County									
1 S Sauk Centre	25	1642CST 1650CST			0	0			Hail (1.75)
Yellow Medicine County									
4 S Canby	25	1645CST 1650CST	0.2	20	0	0			Tornado (F0)
		No damage, touchdown in open field.							
Yellow Medicine County									
8.5 NW Granite Falls to Granite Falls	25	1657CST 1725CST	9	167	1	15	20M		Tornado (F4)

The tornado first touched down in rural Yellow Medicine County, 8 miles west, and 3 miles north of Granite Falls. The tornado lifted before exiting Granite Falls, leaving the most concentrated damage path two miles long, and 500 feet wide, through a primarily residential area of Granite Falls. Most of the damage in Granite Falls was caused by F2 to F3 wind speeds. However, this tornado has been classified as a minimal F4 tornado, based on the twisted wreckage of an overturned railroad car near the

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

intersection of 9th Avenue and 14th street in Granite Falls. M82PH

Chisago County									
Harris	25	1700CST			0	0			Hail (0.75)
Morrison County									
2 E Morrill	25	1700CST			0	0			Hail (1.00)
Yellow Medicine County									
8 NW Granite Falls	25	1710CST			0	0			Hail (1.50)
Stearns County									
Avon	25	1725CST			0	0			Thunderstorm Wind (G50)
		Fifteen foot pine tree toppled.							
Renville County									
5 N Minnesota Falls	25	1730CST			0	0			Hail (0.88)
Stearns County									
2 S Spring Hill	25	1735CST 1737CST			0	0			Hail (0.75)
Renville County									
Sacred Heart	25	1736CST 1739CST			0	0			Hail (0.88)
Renville County									
1 W Renville	25	1745CST 1747CST			0	0			Hail (0.75)
Renville County									
10 S Bird Island	25	1805CST 1810CST			0	0			Funnel Cloud
Mcleod County									
2 W Hutchinson	25	1820CST 1825CST			0	0			Funnel Cloud
Sherburne County									
Princeton	25	1830CST 1835CST			0	0			Funnel Cloud
Renville County									
4 S Hector	25	1845CST 1848CST			0	0			Hail (0.75)
Renville County									
5 N Fairfax	25	1849CST 1858CST			0	0			Hail (1.50)
Mcleod County									
1 W Winsted	25	1857CST 1900CST			0	0			Funnel Cloud
Mcleod County									
Winsted	25	1902CST 1904CST			0	0			Hail (0.75)
Carver County									
2 NE Mayer	25	1915CST 1918CST	0.1	20	0	0			Tornado (F0)
		Six to ten acres of corn flattened.							
Wright County									
Montrose	25	1915CST			0	0			Hail (1.50)
Hennepin County									
St Bonifacius	25	1925CST 1930CST	0.1	20	0	0			Tornado (F0)
		No damage reported.							
Hennepin County									
Mound	25	1946CST 1949CST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Nicollet County 3 W Klossner	25	1948CST			0	0			Funnel Cloud
Nicollet County 3 NW Mankato	25	2013CST 2015CST			0	0			Funnel Cloud
Blue Earth County 5 W Mankato	25	2030CST			0	0			Hail (0.75)
Nicollet County Nicollet	25	2038CST			0	0			Hail (1.75)
Nicollet County North Mankato	25	2053CST 2057CST			0	0			Hail (1.75)
Blue Earth County Mankato	25	2110CST			0	0			Hail (1.50)
Watonwan County 2 N Madelia	25	2125CST 2128CST			0	0			Hail (0.75)
Blue Earth County Eagle Lake	25	2130CST			0	0			Hail (1.75)
Watonwan County Madelia	25	2140CST			0	0			Hail (0.75)
Blue Earth County 4 ENE Amboy	25	2300CST			0	0			Hail (0.75)
Faribault County Easton	25	2300CST			0	0			Hail (1.75)

WISCONSIN, West

St. Croix County 5 E River Falls	07	1030CST			0	0			Thunderstorm Wind (G55)
		Several trees down.							
St. Croix County Somerset	07	1030CST			0	0			Thunderstorm Wind (G55)
		Roof partially blown off structure.							
St. Croix County 2 SSE Hudson to 5 SSE Hudson	07	1050CST			0	0			Hail (0.75)
Pierce County 3 W River Falls to 1 N Hager City	07	1105CST 1130CST			0	0	4.5M		Hail (0.88)
		Red Wing Republican newspaper reported an approximately two mile wide, 20 mile wide swath of destruction to crops began in the northwest portion of Pierce county (about 3 miles west of River Falls) and ended just north of Hager City. The vast majority of the damage was to corn, soybeans, small greens, and alfalfa crops. About 20,000 acres were lost. Twenty-one square miles were a total loss, and about about 40 square miles had some degree of damage from the windblown hail. Though not certain, it is likely this damage was from the same mesocyclone that produced widespread downburst damage from Lino Lakes, MN to Lake Elmo, MN (see corresponding entries in Minnesota portion).							
Pierce County 3 W River Falls to 1 N Hager City	07	1105CST 1130CST			0	0			Thunderstorm Wind (G55)
		Scattered trees down. Minor damage to barns and outbuildings.							
Pierce County 2 WNW Bay City	07	1115CST 1122CST			0	0			Hail (1.00)
		Quarter inch hail covered the ground.							
Pepin County Pepin	07	1232CST			0	0			Thunderstorm Wind (G52)
		Numerous trees down.							

Storm Data and Unusual Weather Phenomena

July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

WISCONSIN, West

Polk County

3 N Clam Falls **08** **1740CST** **0.1** **20** **0** **0** **Tornado (F0)**
1741CST

Touched down in open field, no damage incurred. Tornado originally touched down in Burnett county, from 1735-1740.

Rusk County

9 N Bruce **08** **1755CST** **0** **0** **Hail (0.75)**
1757CST

Rusk County

9 N Bruce **08** **1755CST** **0** **0** **Thunderstorm Wind (G50)**
Trees down.

Rusk County

10 NE Weyerhaeuser **08** **1820CST** **0** **0** **Hail (1.75)**
1823CST

Rusk County

Bruce **08** **1830CST** **0** **0** **Thunderstorm Wind (G60)**
Large trees down.

Polk County

Clam Falls **08** **1838CST** **0** **0** **Hail (1.75)**
1842CST

Chippewa County

5 NE New Auburn to **08** **1845CST** **0** **0** **Hail (0.75)**
3 NE New Auburn **1846CST**

Chippewa County

5 E New Auburn **08** **1855CST** **0** **0** **Thunderstorm Wind (G50)**
Trees down.

Barron County

3 E Rice Lake **08** **1900CST** **0** **0** **Thunderstorm Wind (G52)**
Numerous trees down.

Chippewa County

Holcombe **08** **1900CST** **0** **0** **Hail (0.75)**
1901CST

Chippewa County

3 NE New Auburn to **08** **1907CST** **0** **0** **Thunderstorm Wind (G65)**
3 S New Auburn
Large Trees down, roof partially blown off shed.

Chippewa County

Bloomer **08** **1915CST** **0** **0** **Thunderstorm Wind (G50)**
Trees up to 10 inches in diameter downed.

Barron County

Chetek **08** **1920CST** **0** **0** **Thunderstorm Wind (G55)**
Power lines down.

Chippewa County

Stanley **08** **1950CST** **0** **0** **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

IDAHO, Southwest

Ada County									
2 S (Boi)Gowen Fld	03	1515MST	0	0	0	0	0		Tornado (F0)
Boise		1516MST							
Ada County									
5 S (Boi)Gowen Fld	03	1533MST	0.1	10	0	0	0		Tornado (F0)
Boise		1534MST							
Ada County									
3 W (Boi)Gowen Fld	03	1548MST	0.1	10	0	0			Tornado (F0)
Boise		1550MST							
Ada County									
6 NE Eagle	03	1551MST	0.1	10	0	0			Tornado (F0)
		1552MST							

A series of thunderstorms moved through the Treasure Valley with 4 confirmed tornadoes in Ada county. One of these tornadoes touched down near Hidden Springs with damage limited to 2 large trees being uprooted. The path of the tornado was 10 yards wide and less than one-tenth of a mile in length. Another touched down near the intersection of Lake Hazel Road and 5 Mile Road. Damage was confined to one home where a flag pole was bent in half and a 2x4 was imbedded in the outer wall of the home. No injuries occurred and damage estimates were unavailable. The other 2 tornadoes touched down briefly south of the airport in open country. These were observed by off-duty NWS meteorologists and a trained spotter. These tornadoes caused no damage.

Ada County									
Cloverdale	04	1514MST			0	0			Thunderstorm Wind (G60)
		1600MST							
Twin Falls County									
Twin Falls	04	1529MST			0	0			Thunderstorm Wind (G60) ^M
		1600MST							
Jerome County									
Jerome	04	1530MST			0	0			Thunderstorm Wind (G60)
		1600MST							

A line of thunderstorms moved through Southwest Idaho with wind gusts to 60 mph. Trees and power lines were downed in Ada county and Idaho Power reported that about 10,000 residents were without power for several hours. A 4' diameter tree was uprooted near Amity school in Ada county and 8" diameter trees were blown down in Jerome. A 60mph wind gust was recorded in Twin Falls and trees and power lines were downed near Filer. Lightning also sparked several small grass fires which were quickly contained, however one fire was started near Castleford that continued to burn for several days.

MINNESOTA, Central and South Central

Watonwan County									
2.5 N Darfur	07	1925CST			0	0			Hail (0.88)
		1926CST							
Brown County									
Comfrey	07	1940CST			0	0			Hail (0.88)
		1941CST							
Watonwan County									
2 N Darfur	07	1952CST			0	0			Hail (0.75)
		1953CST							
Redwood County									
Walnut Grove	07	2015CST			0	0			Thunderstorm Wind (G55)
									Trees and power lines down.
Martin County									
Trimont	07	2025CST			0	0			Thunderstorm Wind (G52)
									Large tree limbs down.
Redwood County									
Lamberton	07	2030CST			0	0			Thunderstorm Wind (G55)
									Few trees down, including one on house.
Redwood County									
Morgan	07	2030CST			0	0			Thunderstorm Wind (G55)
		2045CST							
									Several utility poles and power lines down. Minor building damage.

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

Watonwan County 2 N Lewisville	07	2035CST			0	0			Thunderstorm Wind (G50)
			Trees down across road.						
Watonwan County 2 E Lewisville	07	2040CST			0	0			Thunderstorm Wind (G55)
			Roof partially off.						
Watonwan County St James	07	2045CST			0	0			Thunderstorm Wind (G52)
			Scattered trees down.						
Brown County New Ulm	07	2048CST			0	0			Thunderstorm Wind (G50)
			Several trees toppled.						
Nicollet County 3 S Klossner	07	2050CST			0	0			Thunderstorm Wind (G50)
			Tree down on road.						
Sibley County 4 WNW Henderson	07	2053CST			0	0			Thunderstorm Wind (G55)
			Large tree down over road.						
Blue Earth County Lake Crystal to Vernon Center	07	2100CST 2110CST			0	0			Thunderstorm Wind (G55)
			Light to moderate damage of approximately 15,000 acres of field corn, but severe damage to 2,000 acres of sweet corn. Scattered trees down, including one on an automobile causing considerable damage. Minor building damage.						
Watonwan County 3 N Darfur	07	2100CST			0	0			Thunderstorm Wind (G60)
			Numerous trees down. Fifty percent of crops flattened over portions of the extreme northwest portion of the county.						
Watonwan County Madelia	07	2100CST			0	0			Thunderstorm Wind (G52)
			Several large trees down, including one on a truck.						
Renville County Buffalo Lake	07	2113CST			0	0			Thunderstorm Wind (G50)
			Small trees down.						
Blue Earth County Mankato	07	2120CST			0	0			Thunderstorm Wind (G50)
			Trees felled. As reported by Lake Crystal Tribune. Light to moderate damage of approximately 15,000 acres of field corn. Severe damaged sustained to approximately 2000 acres of sweet corn.						
Carver County New Germany	07	2132CST			0	0			Hail (0.75)
Carver County New Germany	07	2132CST			0	0			Thunderstorm Wind (G52)
Mcleod County Hutchinson	07	2135CST			0	0			Thunderstorm Wind (G55)
			Power lines and large tree limbs down.						
Le Sueur County Le Center	07	2153CST			0	0			Thunderstorm Wind (G52)
Rice County Faribault	07	2215CST			0	0			Thunderstorm Wind (G50)
			Several trees toppled.						
Stearns County Sauk Centre	25	1530CST			0	1			Lightning
			Metal trailer struck by lightning. Person standing next to trailer suffered burns.						
Washington County Lake Elmo	26	0030CST			0	0	1.5M	100K	Thunderstorm Wind (G78) ^M
			Wind measured at Lake Elmo Airport. Thirtytwo aircraft damaged, structural damage to several hangars at the Lake Elmo Airport. Estimated damage of one million dollars at the airport, according to the Metropolitan Airports Commission. Forty homes damaged						

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

MINNESOTA, Central and South Central

just west of the airport with another 0.5 million damage estimated. Most damage involved dislodged shingles, siding, garage doors damaged. Many large trees in the old village area of Lake Elmo suffered heavy damage, or were blown down. Some corn also flattened. Twenty thousand electrical customers out of power for several hours across Woodbury, Afton, and Lake Elmo.

Washington County Stillwater

26 0050CST **0 0** **Thunderstorm Wind (G60)**
Trees and power lines toppled.

VIRGINIA, North

Highland County Countywide

09 1400EST **0 0 10K** **Thunderstorm Wind**
1415EST
Trees were downed and a barn was damaged.

Augusta County Stuarts Draft

09 1415EST **0 0 30K** **Thunderstorm Wind**
A downed tree damaged a house and a tractor and high winds removed an aluminum barn roof.

Staunton (C) Staunton

09 1415EST **0 0 6K** **Thunderstorm Wind (G56) ^M**
Several trees were downed and structures were damaged by winds gusting to 65 MPH.

Rockingham County Countywide

09 1430EST **0 0 40K** **Thunderstorm Wind**
1515EST
Trees and power lines were downed onto roads and a car.

Augusta County Countywide

09 1445EST **0 0 10K** **Thunderstorm Wind**
1515EST
Trees were downed.

Staunton (C) Staunton

09 1445EST **0 0 5K** **Thunderstorm Wind**
Trees were downed onto roads and a house. Windows were blown in and a roof was damaged.

Frederick County Countywide

09 1500EST **0 0** **Heavy Rain**
1700EST

Rappahannock County Sperryville

09 1500EST **0 0 2K** **Thunderstorm Wind**
1530EST
Trees were downed.

Shenandoah County Bowman

09 1500EST **0.2 15 0 0 1K** **Tornado (F0)**
A 15 yard wide tornado briefly touched down on the banks of the North Fork of the Shenandoah River near Bowman's Crossing. It downed trees and corn as it traveled north for two tenths of a mile.

Shenandoah County New Market to Mt Jackson

09 1500EST **0 0 5K** **Thunderstorm Wind**
Trees and power lines were downed.

Albemarle County Countywide

09 1515EST **0 0 5K** **Thunderstorm Wind**
1530EST
Trees were downed.

Culpeper County Culpeper

09 1515EST **0 0 2K** **Thunderstorm Wind**
1525EST
Trees were downed.

Page County Stanley to Luray

09 1515EST **0 0 3K** **Thunderstorm Wind**
Trees and power lines were downed.

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

VIRGINIA, North

Waynesboro (C)

Waynesboro 09 1515EST 0 0 2K Thunderstorm Wind
Trees and power lines were downed.

Frederick County

Hayfield 09 1520EST 0 0 15K Thunderstorm Wind
Several trees and power lines were downed and a barn roof was blown off near Hayfield.

Greene County

Standardsville 09 1520EST 0 0 2K Thunderstorm Wind
Trees were downed.

Madison County

Etlan 09 1520EST 0 0 2K Thunderstorm Wind
Trees were downed.

Madison County

1 E Madison 09 1520EST 0.5 50 0 0 15K Tornado (F1)
A tornado touched down just east of Madison where it downed trees onto homes and cars and damaged a barn.

Orange County

Orange 09 1525EST 0 0 2K Thunderstorm Wind
Trees were downed.

Winchester (C)

Winchester 09 1525EST 0 0 Lightning
Lightning started an attic fire.

Winchester (C)

Winchester 09 1525EST 0 0 0.50K Thunderstorm Wind
A tree was downed onto a power line.

Warren County

Countywide 09 1530EST 0 0 5K Thunderstorm Wind
Trees were downed.

Winchester (C)

Winchester 09 1530EST 0 0 Hail (0.75)
Dime sized hail fell.

Frederick County

Stephenson 09 1541EST 0 0 Hail (0.75)
Dime sized hail fell.

Fauquier County

Warrenton 09 1600EST 0 0 5K Thunderstorm Wind
Trees and power lines were downed.

Loudoun County

1 N Dulles Intl Arpt 09 1615EST 0 0 Thunderstorm Wind (G57) ^M
A wind gust of 66 MPH was recorded on the north grounds of Dulles International Airport.

Manassas (C)

Manassas 09 1620EST 0 0 30K Thunderstorm Wind
Trees and power lines were downed and picnic tables and concession tents were damaged at an amusement park.

Stafford County

Countywide 09 1620EST 0 0 2K Thunderstorm Wind
Trees were downed.

Fairfax County

Countywide 09 1625EST 0 0 5K Thunderstorm Wind
1635EST
Trees and power lines were downed.

Highland County

Blue Grass 09 2130EST 0 0 10K Lightning

A barn was destroyed by a lightning fire.
A cold front moved across the region on the evening of the 9th. Thunderstorms that developed ahead and along the front produced winds in excess of 55 MPH, hail, frequent lightning, and isolated tornadoes. In Highland County, trees were downed in Monterey and across the county. A lightning fire destroyed a barn on Route 637 near Blue Grass. In Augusta County, several trees were

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

VIRGINIA, North

downed and structures were damaged by high wind. A wind gust of 65 MPH was recorded in Staunton. Eight trees were downed onto city roads and seven trees were downed onto a golf course. One downed tree damaged a brick wall at the Woodrow Wilson Birthplace. Windows were blown out on two buildings and the roof of an apartment building was damaged. In Stuarts Draft, a downed tree damaged a house and a tractor and high wind removed the aluminum roof from a barn. In Waynesboro, trees and power lines were downed. In Rockingham County, trees and power lines were downed in Timberville, Elkton, Keezletown, and Rawley Springs. Some trees were felled across roads and one tree fell onto a car in Keezletown. Hail fell in Timberville.

In Shenandoah County, an F0 tornado briefly touched down on property adjacent to Red Bank Road near Bowman's Crossing. The 15 yard wide twister started by sucking up water on the banks of the North Fork of the Shenandoah River. Next, it moved onshore and traveled north for two tenths of a mile. It downed or snapped five trees and flattened part of a corn field before dissipating. Straight line winds downed trees and power lines near New Market and Mt. Jackson. A wind gust of 42 MPH was recorded in Edinburg and hail fell in New Market. In Rappahannock County, trees were downed in Sperryville. In Page County, downed trees and power lines blocked roads in Stanley. A wind gust of 41 MPH was recorded in Luray where a downed tree punctures the roof of a house. In Albemarle County, several trees were downed. In Greene County, trees were downed in Standardsville. In Culpeper, trees were downed in Culpeper. In Madison County, an F1 tornado touched down just east of Madison. The 50 yard wide twister was on the ground for one half mile and caused nearly \$15,000 in damage. It downed trees onto houses and one tree punched a hole into a roof. Two cars were hit by fallen trees and a barn was damaged. Straight line winds downed trees in Etlan and Madison. In Orange County, a wind gust of 45 MPH was recorded at the Orange County Airport. Trees and power lines were downed in Orange.

In Frederick County, several trees and 20 power lines were downed from Hayfield to Shawneeland. Several roads were blocked by felled trees. Two houses were damaged by downed trees in Shawneeland. A barn roof and side were blown apart near Hayfield. Dime sized hail fell in Stephenson and Winchester. A tree was downed onto a power line on Amherst Street and lightning started an attic fire in Winchester where a wind gust of 40 MPH was recorded. Abrams Creek overflowed its banks in Winchester after one half inch of rain fell in 20 minutes. In Warren County, trees and power lines were downed in Warrenton and at the Warren County Airport. In Loudoun County, a wind gust of 66 MPH was recorded at the National Weather Service office on the north grounds of Dulles International Airport. In Fairfax County, downed trees were concentrated in the Centreville and Clifton areas. In Manassas, trees and power lines were downed and picnic tables and concession tents were damaged at an amusement park. In Stafford County, trees were downed in and near White Oak, Mountain View, and Widewater. A wind gust of 46 MPH was recorded at the Fredericksburg Airport.

WISCONSIN, West

Rusk County

Ladysmith	08	1550CST	0	0	Hail (2.75)
		1605CST			

Golfball to baseball size hail throughout the city. Widespread windblown hail caused damage to windows, houses, vehicles.

Rusk County

Ladysmith	08	1550CST	0	0	Thunderstorm Wind (G55)
		1605CST			

Scattered trees down throughout city.

Rusk County

10 N Ladysmith	08	1605CST	0	0	Hail (0.75)
		1606CST			

Barron County

2 W Cumberland to Cumberland	08	1725CST	0	0	Hail (1.75)
		1730CST			

Polk County

Milltown	08	1730CST	0	0	Thunderstorm Wind (G50)
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Trees toppled.

Polk County

Frederic	08	1736CST	0	0	Hail (2.75)
		1738CST			

Barron County

4 SE Cumberland	08	1745CST	0	0	Hail (1.00)
		1746CST			

Barron County

Cameron	08	1750CST	0	0	Hail (2.50)
		1752CST			

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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ADDITIONS/CORRECTIONS

WISCONSIN, West

Barron County

1 W Rice Lake 08 1755CST 0 0 Hail (2.75)
1757CST

Windows broken, damage to houses.

Polk County

10 SSE Clam Falls 08 1755CST 0 0 Hail (1.00)
1756CST

Polk County

Clear Lake 08 1800CST 0 0 Hail (1.00)
1802CST

Rusk County

Weyerhaeuser 08 1802CST 0 0 Hail (1.75)
1803CST

Chippewa County

12 NE New Auburn 08 1805CST 0 0 Hail (1.00)

St. Croix County

Somerset 12 2235CST 1 2 Lightning

Victims were walking along a road after a concert, heading to a campsite on the outskirts of Somerset. Only a few rumbles of thunder were heard.
M26OU

Rusk County

Bruce 14 1920CST 0 0 Hail (0.75)
1921CST

Rusk County

Ladysmith 14 1930CST 0 0 Hail (0.75)
1931CST

Rusk County

Weyerhaeuser 14 1930CST 0 0 Hail (0.75)
1931CST

Polk County

2 ENE Luck 14 1935CST 0.2 20 0 0 Tornado (F0)

Tornado knocked down a few trees.

Rusk County

12 S Ladysmith 14 1940CST 0 0 Hail (0.75)
2000CST

Rusk County

Sheldon 14 1945CST 0 0 Hail (0.75)
1946CST

Rusk County

4 NW Bruce 14 2005CST 0 0 Thunderstorm Wind (G55)

Several trees toppled across road.

Rusk County

2 S Ingram 14 2010CST 0 0 Thunderstorm Wind (G55)

Several trees blown over onto road.

Rusk County

8 S Weyerhaeuser 14 2100CST 0 0 Thunderstorm Wind (G50)

Tree down across road.

Polk County

Frederic 14 2105CST 0 0 Hail (1.75)
2107CST

Barron County

Cumberland to Rice Lake 14 2130CST 0 0 Flash Flood
2300CST

Numerous roads covered, some basements flooded. Three to four inches rain fell in less than two hours.

Barron County

Rice Lake 14 2150CST 0 0 Hail (1.00)
2152CST

Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ADDITIONS/CORRECTIONS

WISCONSIN, West

Barron County

Cumberland to
Rice Lake

14 2156CST
2157CST

0 0

Hail (0.88)

Rusk County

West Portion to
Southeast Portion

14 2200CST
2330CST

0 0

Flash Flood

Road washed out, numerous other roads covered by water. Some basements flooded. NWS Cooperative observers measured 5.1 inches rain 2 SSE Weyerhaeuser, and 4.73 inches in Sheldon.

Barron County

Chetek

14 2308CST
2311CST

0 0

Hail (2.75)

St. Croix County

Hudson

26 0100CST
Trees downed.

0 0

Thunderstorm Wind (G50)

St. Croix County

River Falls

26 0120CST
Trees felled.

0 0

Thunderstorm Wind (G50)

Pierce County

Ellsworth

26 0155CST
0157CST

0 0

Hail (1.75)

Pepin County

Stockholm

26 0210CST
0212CST

0 0

Hail (1.75)

Pepin County

Stockholm

26 0210CST

0 0

Thunderstorm Wind (G52) ^M

Pierce County

Ellsworth

26 0215CST

0 0

Hail (1.75)

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration
DST	- Daylight Savings Time
LST	- Local Standard Time
LDT	- Local Daylight Time

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the “G” indicates a “*Gust*” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

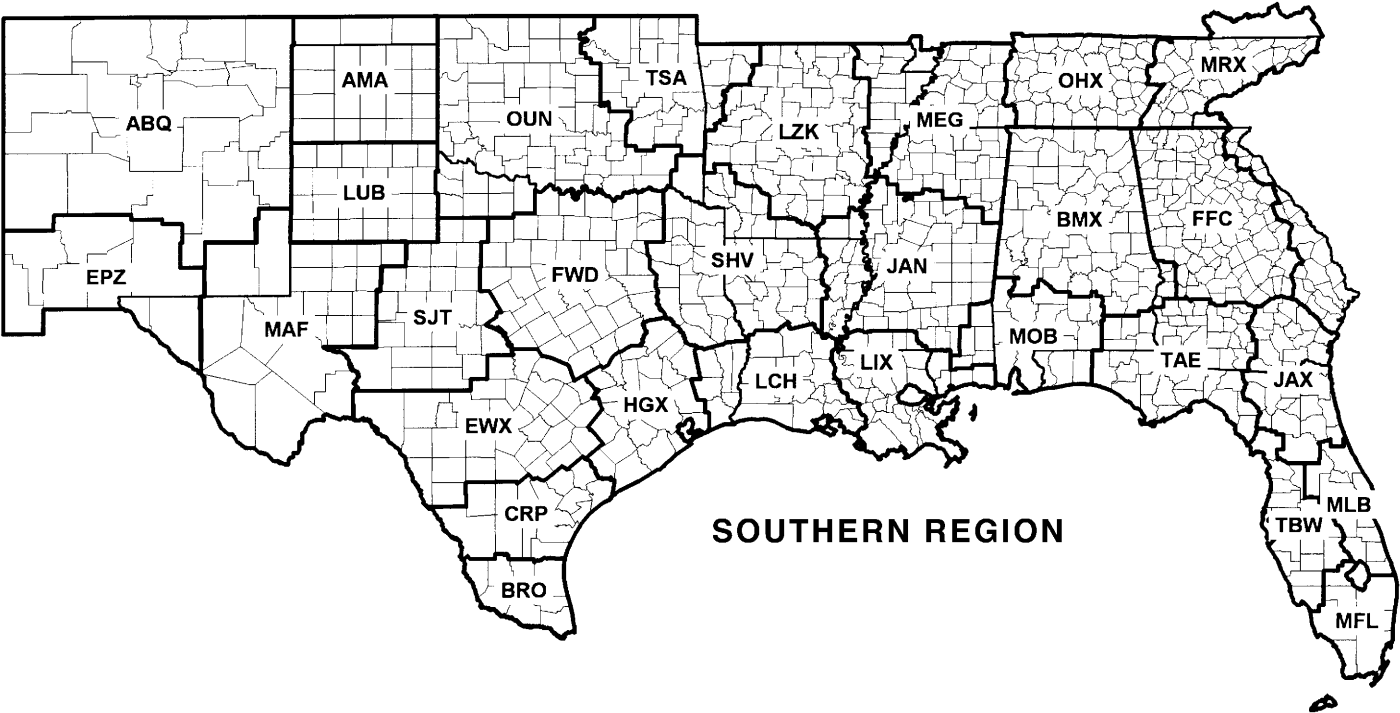
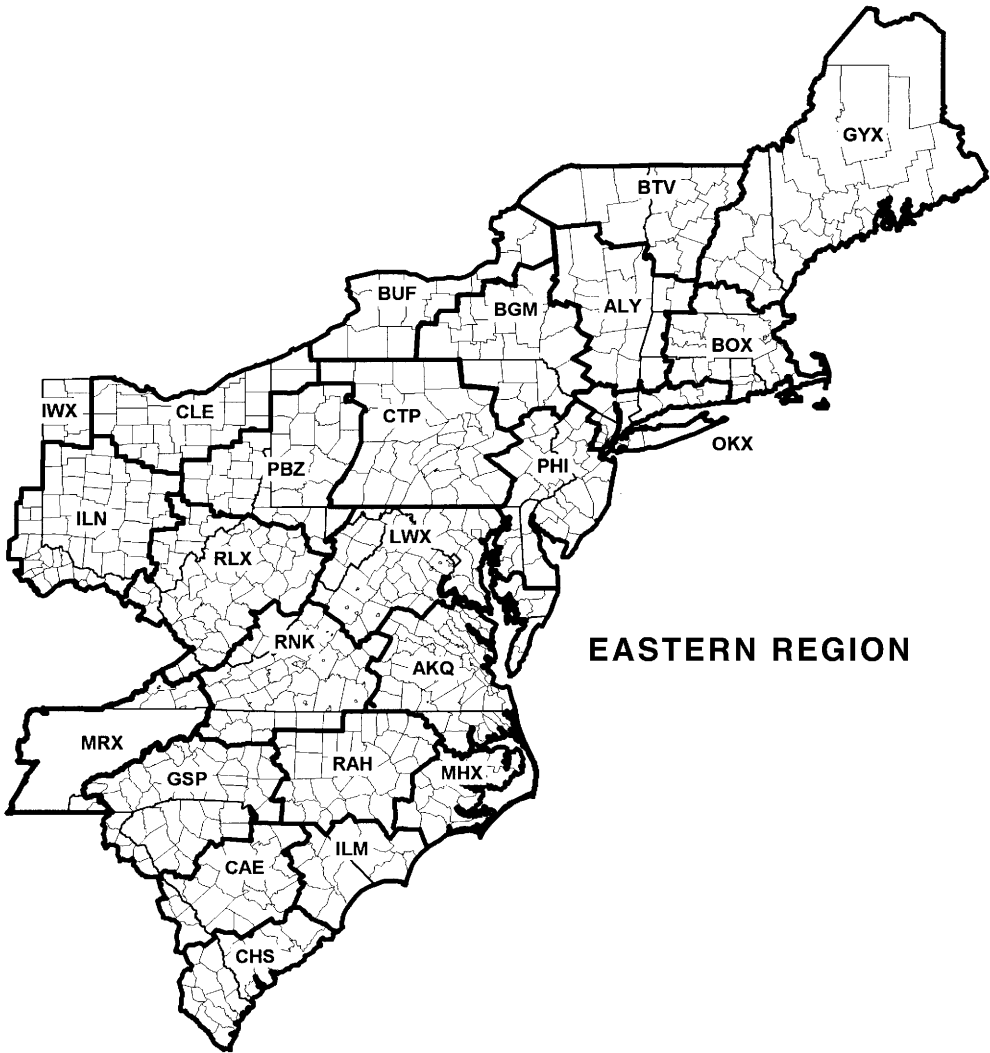
The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

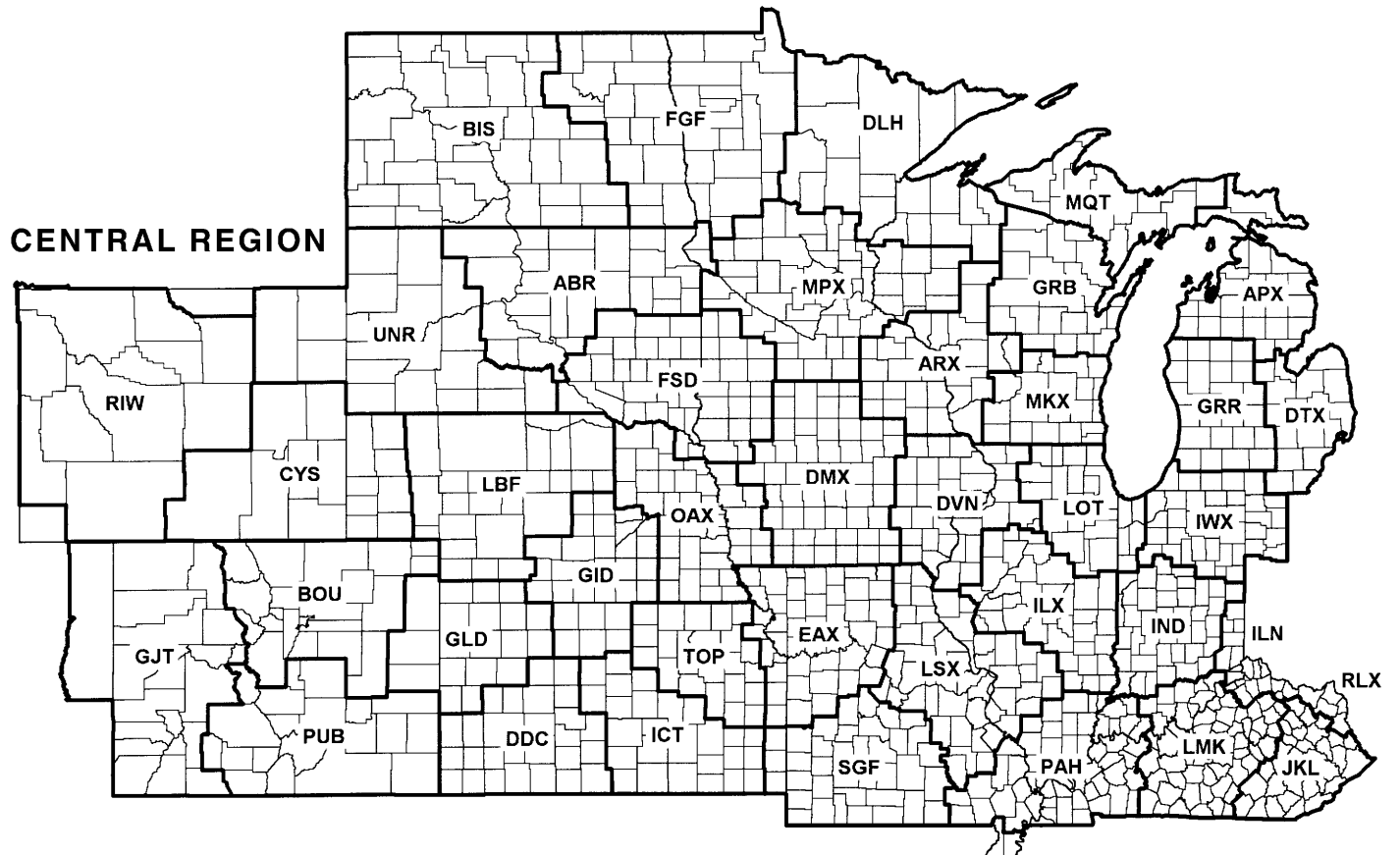
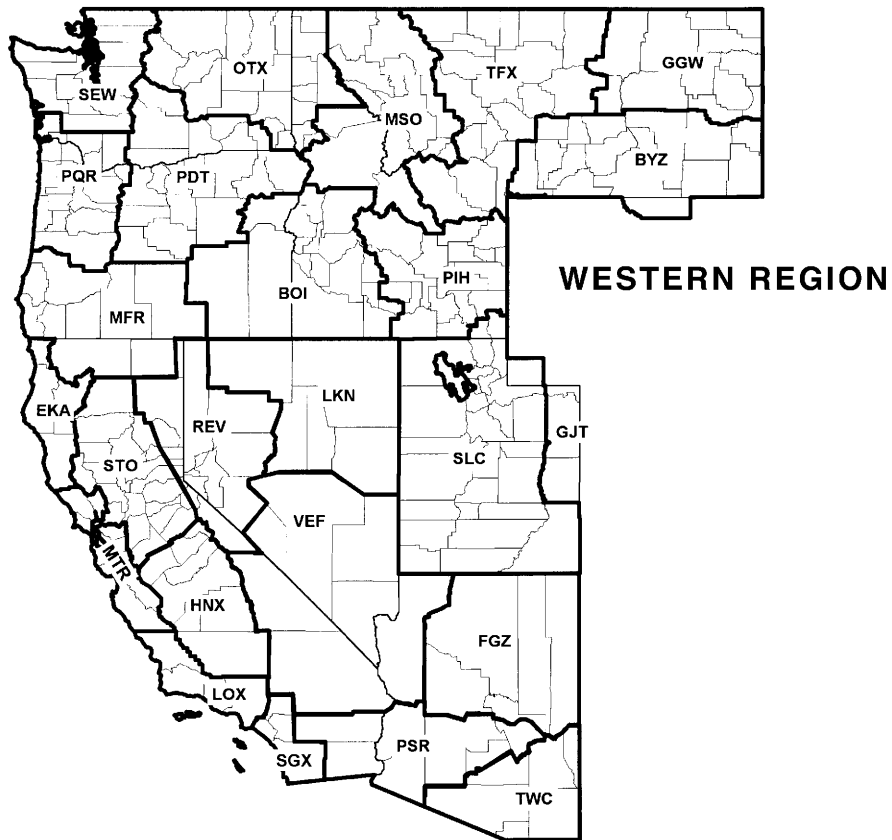


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

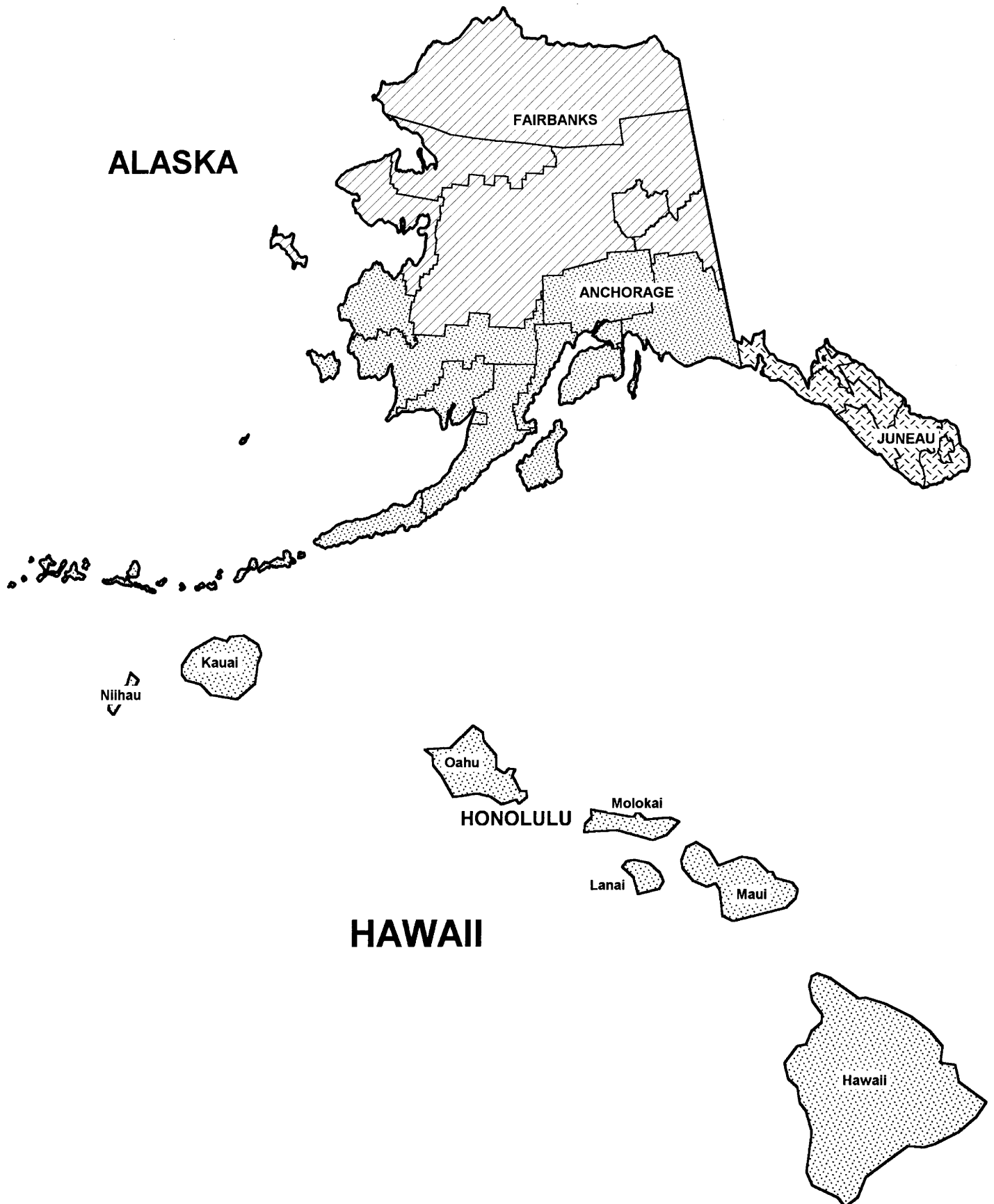
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MODERNIZED COUNTY WARNING AREAS



These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

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